

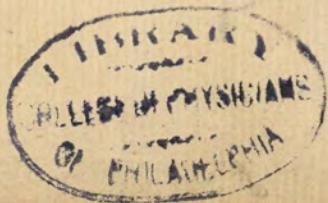


G. F. Schman

Augustum Mühlenberg.

Rush.

Oh! who on Rush could cast a single frown,  
 The king of Collea, and the lord of Brown,  
 Garvins superior in each degree  
 The friend of Science and of Liberty.





ward



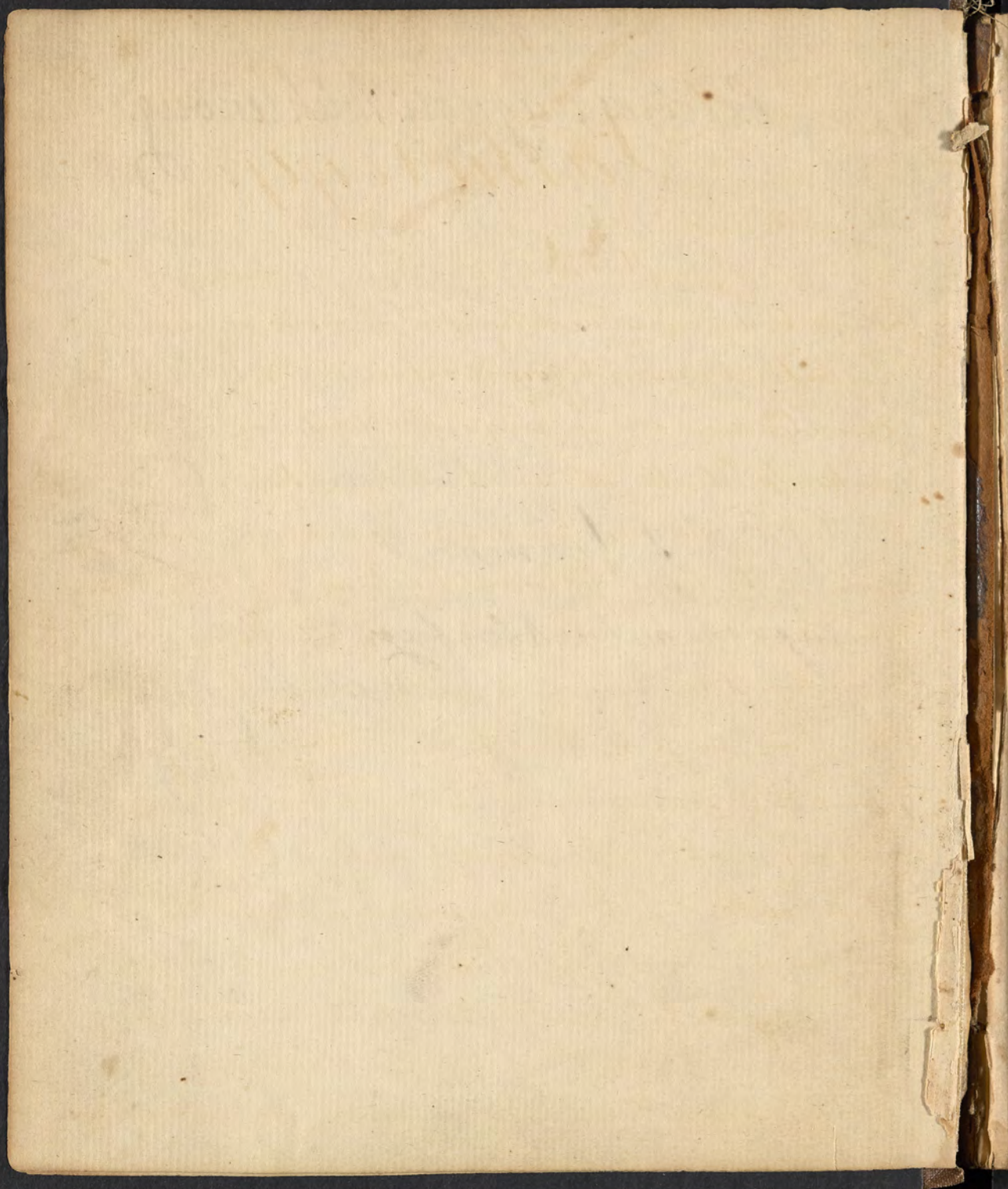
Ex libris Augusti Mühlberg.

George S. Lehman  
ad  
Augustam Mühlberg.

Philadelphica

Dec 2. 1810







# Pathology.

Gentlemen

Hitherto we have considered the living body in a healthy state, such as divines considered man before his Fall. But now we will consider him in an imperfect or diseased state. — Sickness & death as moral evil are the consequences of the forfeiture of primordial innocence, which, as soon as lost was followed by these effects. Every element in Nature took a part with the creator & conspired with him against man; their action however, at first, was feeble & slow, as we find by the age of some who almost reached 1000 years; & it was not till after the deluge that the life of man was contracted to the present age; the influence of <sup>it</sup> together with the Atmosphere conspired to produce. That life is a forced state is no less consonant to religion than to true Philosophy. Life consists in a strife or a temporary victory over cau.



5 The human body is so formed that contrast is  
necessary to pleasure and happiness



ses w<sup>h</sup> tend to induce death. Let us not suppose  
 that the Creator delights in the misery of his  
 creatures; so far from this being the case that  
 all diseases are blessings in disguise. They are  
 necessary to our general good & happiness; they  
 are of important uses; they naturally lead us to  
 the study of subjects highly important to the hu-  
 man race. Disease first rendered it necessary  
 for man to undertake the study of Anatomy 2<sup>d</sup>  
 this leads us to a knowledge of Physiology 3<sup>d</sup> It  
 leads us to the study of nature & the Animal, ve-  
 getable & Fossil kingdoms without w<sup>h</sup> the works  
 of Nature w<sup>d</sup> remain unexplored & unadmir'd.  
 4<sup>th</sup> It leads us to the study of the human mind; affords  
 & furnishes exercise for our moral faculties; for with-  
 out diseases there w<sup>d</sup> be no benevolence, no charity,  
 no Hospitals to relieve the indigent & 5<sup>th</sup>  
 6<sup>th</sup> as darkness gives charms to light, so is disease ne-  
 cessary to impart a relish for health. 7<sup>th</sup> It serves to  
 increase our moral virtue, for many owe their vir-  
 tue to a spell of sickness - 8<sup>th</sup> It reconciles us to



Pain imparts vigor to the mind.

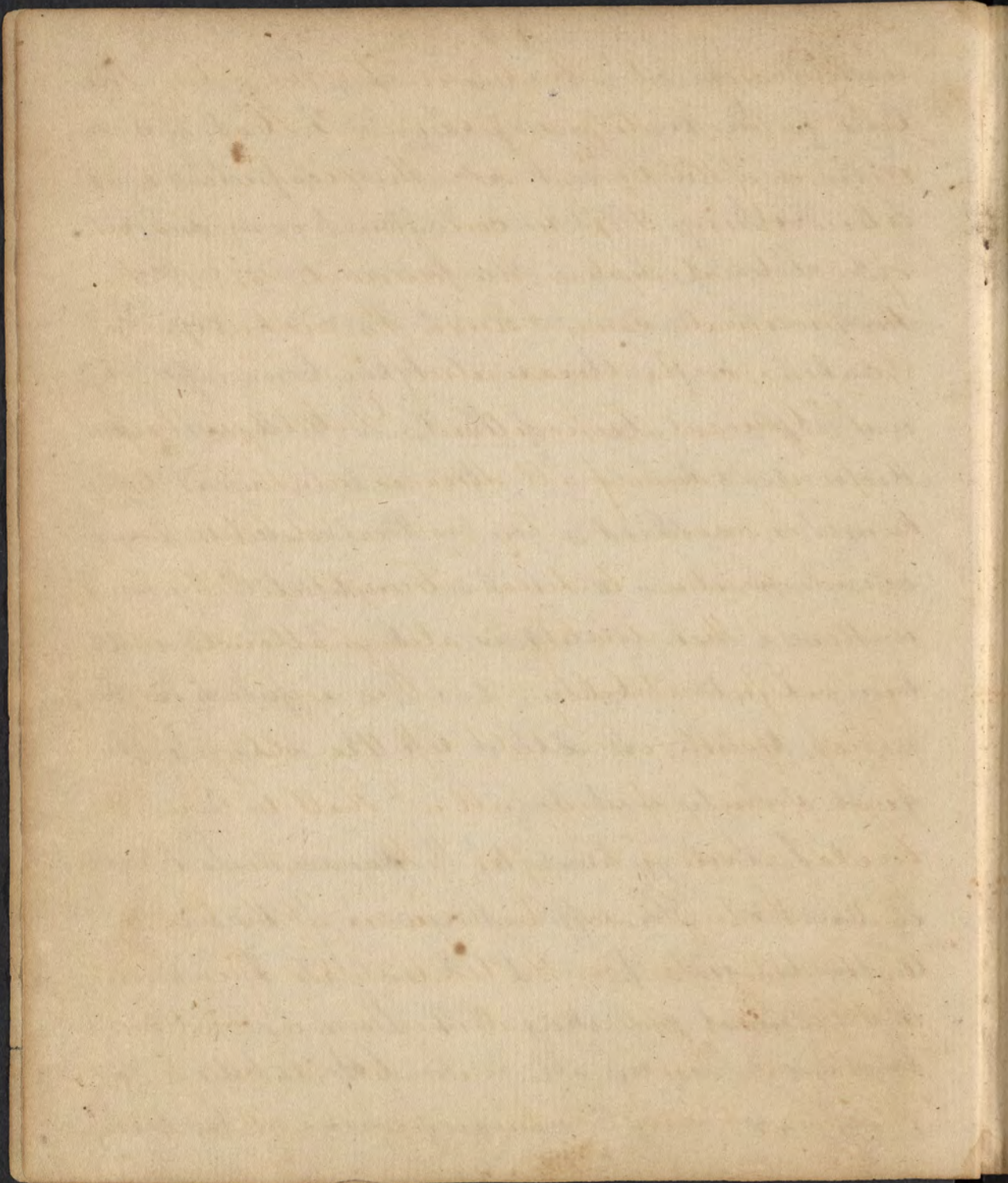
Delirium consists in the confused and irregular  
operations of debilitated and disordered Mature



death & induces us to console ourselves under afflictions for the loss of our friends. Pain itself unconnected with disease has several important uses. Is the harbinger of disease & often points out its seat. Those diseases or disorders w<sup>h</sup> creep or steal slowly on the system without pain, are most to be dreaded such as Cancers, Pulm. Consumpt<sup>n</sup> chronic inflammation of the liver & chronic obstructions of all kinds. — On entering upon Pathology I am without a guide. Boerhaave's notions & observations are short & not suited to the present improved state of medicine. Gaubius attempts to bring it into a system; but it is so full of the humoral doctrine, that it is of little service to the students of the present day.

Pathology treats of the Causes, Seats, & Signs of diseases. The different causes of diseases may be divided into four 1<sup>st</sup> Remote 2<sup>d</sup> Predisposing 3<sup>d</sup> Occasional or exciting & 4<sup>th</sup> Proximate, (or morbus ipse. They are all links of one chain. For instance, in an inflammatory fever 1<sup>st</sup> Cold is the



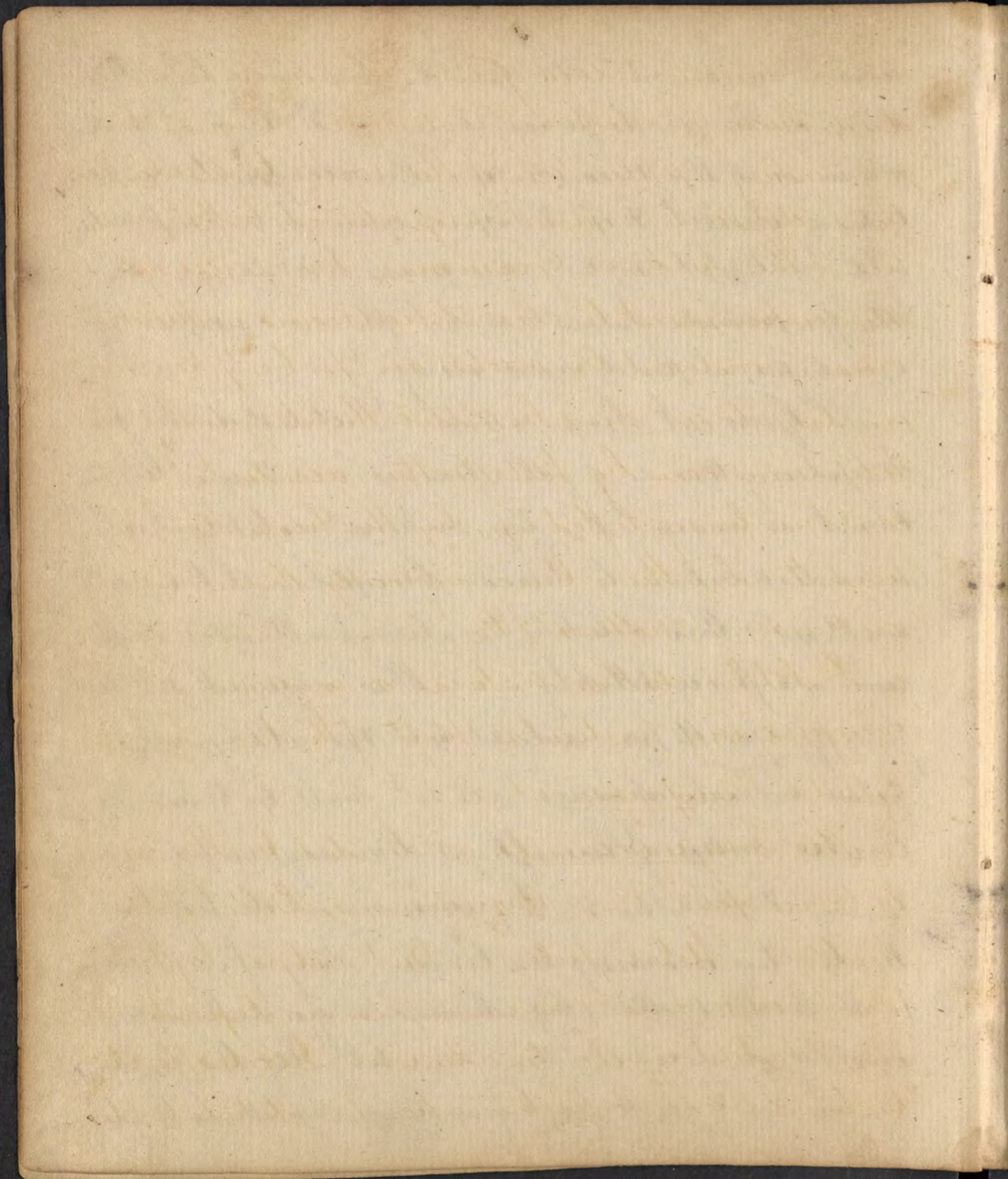




remote cause - 2<sup>d</sup> The debility produced by the cold is the predisposing cause - 3<sup>d</sup> Heat of a stove room or of the vernal sun the occasional or exciting cause & 4<sup>th</sup> The convulsive or morbid action of the Arterial System, the proximate cause. By the proximate cause I mean the morbus ipse of Gaubius, or the disease itself. -

1<sup>st</sup> General Proposition. Debility is the predisposing cause of all diseases, whether it be natural or acquired; By natural debility I mean a predisposition to disease brought into the world with us. This debility is always attended with more or less irritability - It is acquired in Infancy, Youth, in adult life & in old age, in a great variety of ways all w<sup>ch</sup> shall be taken particular notice of hereafter. It is acquired in infancy & childhood, by injuries at the time of birth, by washing the tender skin of infants with ardent Sp<sup>ts</sup>., by aliments of unwholesome quality, or excessive in quantity, by the passions of Nurses & mothers, by improper methods of dress.







sing By opium And <sup>tho</sup> ~~tho~~ <sup>it</sup> being given to chil-  
 dren, than w<sup>h</sup> nothing is more injurious, by  
 premature application of the mind to Study, par-  
 ticularly such as are disproportioned to the Facul-  
 ties of the child, as Grammar, Dead Languages &c  
 By confinement to close Schoolrooms without ex-  
 ercise, enveloped by a stotic air for 6 or 7 hours ev-  
 ery day, to w<sup>h</sup> may be added the despotism of  
 Schoolmasters - by falls & other accidents, by  
 children being lifted up, by the heels, hair of the  
 head &c by their being violently shaken by ang-  
 ry nurses or Mothers &c

Debility whether natural or acquired when it  
 occupies any particular part of the Body has been  
 called a Temperament.

The Temperaments as divided by the Anci-  
 ents are four viz Sanguineous, Bilious, Phleg-  
 matic & Melancholic. But I object to the  
 term Temperament as conveying no definite mean-  
 ing & I adopt in its stead the word Predisposition  
 by w<sup>h</sup> I mean a preternatural aptitude to dis-



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ease in any particular part of the Body, founded on debility either native or acquired & attended with preternatural excitability. By excitability I understand a capacity of being acted upon by Stimuli. Debility is seldom general, but occupying for the most part but one system of the Body & predisposing it to disease. —

Predisposition is divided into

- 1<sup>st</sup> Arterial
- 2<sup>d</sup> Hepatic
- 3<sup>d</sup> Nervous
- 4<sup>th</sup> Muscular
- 5<sup>th</sup> Cephalic
- 6<sup>th</sup> Phrenetic
- 7<sup>th</sup> Alimentary
- 8<sup>th</sup> Sympathetic
- 9<sup>th</sup> Cutaneous. —

Arterial Predisposit<sup>n</sup> is subdivided into Aortic Pulmonary & Uterine & predisposes to acute diseases especially in warm climates, there is an excess of Blood &c





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Hepatic - Persons of this predisposition are said to have livers preternaturally large that secrete a preternatural quantity of Bile; exists most frequently in warm climates & in autumn; discovers itself by aptitude to Diarrhoea, Cholice & Nervous Predis discovers itself by a susceptibility of being violently acted upon by the slightest corporeal or mental impressions. Persons of this Predisposit<sup>n</sup> are subject to Hypochondriasis & Hysteria happy & miserable half a dozen times a day.

Cephalic Predis is attended with aptitude to Head ache, Vertigo, Apoplexy, & Palsy differs from the Phrenetic in occupying the inferior or lowest part of the Head.

Phrenetic differs from the Cephalic in occupying the superior part of the Brain, & discovers itself in early life by an uncommon aptitude to acquire knowledge, quick perception - It is attended with great aptitude to become delirious from the slightest fever. Persons of this predisposition may be said to be all mind.



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Muscular predis<sup>n</sup> is known by little sensibility & great irritability in the muscular fibre. Persons of this predisposition are disposed to active employments, & dislike confinement. If necessity compels them to sit in one place, their hands feet & head are continually in motion — they walk fast, ride swiftly, & may be said to repose only in activity. They may be said to be all muscles.

Alimentary Predis<sup>n</sup> is divided into Gastric & Intestinal; because the Stomach is often very excitable, with healthy bowels, & vice versa. —

Lymphatic Predisposition — The Lymphatics perform their functions with undue celerity & force. —

The Cutaneous predisposition discovers itself in the facility with w<sup>h</sup> itching, redness, eruptions &c are excited upon the skin for the slightest causes, also in great difficulty of healing external wounds sores &c. —

Some one of these predispositions is present in every person. There is scarcely any person



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but what has some weak part about him. Perfect health is as rare as perfect virtue or perfect reason. Predisposition is not always separate or confined to one system - they are often blended, or combined, in various ways. The Hepatic & Alimentary are often united - Nervous Muscular & cephalic in persons subject to Epilepsy - the nervous & Cephalic are often blended. Nervous & Arterial sometimes combined in Hysterical persons. -

Predisposition varies in different periods of life, & in different seasons of the year. Thus the Alimentary prevails in early life - Arterial & Hepatic in Middle life & nervous & Cephalic in Old age. Arterial predominates in Spring - Hepatic in Summer, Nervous in Autumn - Lymphatic in winter. Predisposition often descends from father to son, but are mixed changed or lost by intermarriages with Strangers - Some Nations lose their predispositions by the intermixture of Strangers - to weakneß in one



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part commonly attended with preternatural strength in others - The same remote causes act very differently in persons of different predispositions - Persons of the same age with the same exercise & on the same day, may be taken with different diseases according as the different predispositions predispose to different affections - From this cause the same medicines produce different effects, the same Epidemic appears with different symptoms. This difference of predisposition explains the reason why the Gout attacks such opposite parts of the Body, the weakest part constantly attracts disease - Lord Cornwallis used to say he could always tell the weakest part of his Camp, by General Lee's always being sure to attack that part. A man may tell which is the weakest part about him by the same means, for disease will attack that part. Relief has been given to many disorders by the cessation of Predisposition for want of excitability thro' the influence of time on the



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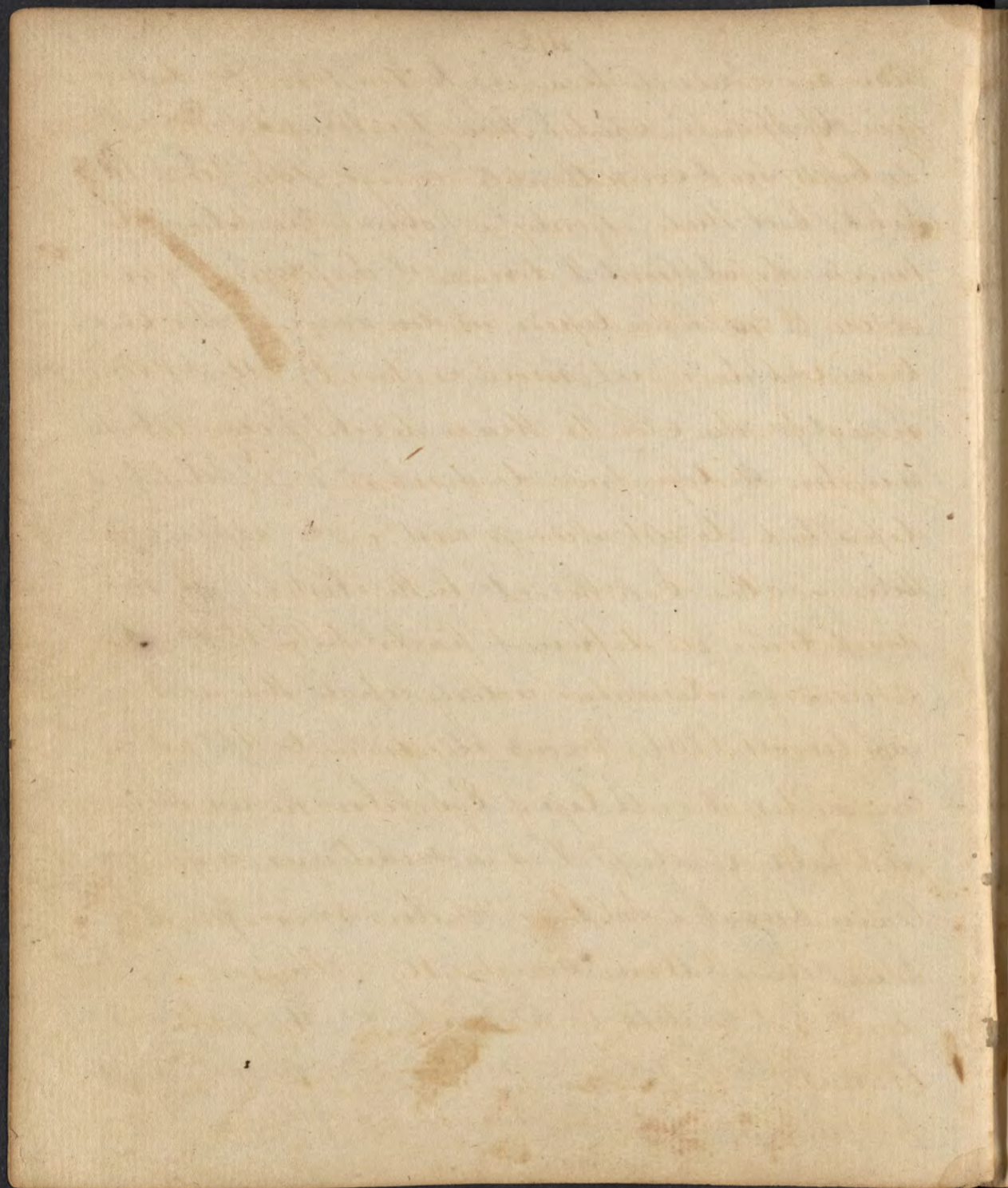


disorder when excitement is below what is natural.

Healthy excitement may be placed at 50, this is kept up by the stimuli w<sup>h</sup> support life already described. If part of these stimuli are suddenly abstracted the excitement will come down to 40, there being at the same time an accumulation of excitability - This is the debility of abstraction. If the number or force of stimuli be suddenly increased, the excitement first rises to 60. It then descends to 40 carrying along with it suffocating excitement. This is the debility for action. Debility for both its causes occurs more readily in children & in old people, & in the middle of the night, <sup>than in</sup> the morning & evening. Debility admits of considerable range & does not always end in disease - Elevated excitement is the usual premontory sign of disease. -

If the causes of Debility continue to act long, or their force or number is increased, depression will take place. The signs of depres-







sion are coldness, heaviness, weariness, Depression of Spirits, contraction & paleness of the skin. Debility has considerable range, say from 40 to 60, but there is only a Cobweb partition between depression & disease - Depression forbids action & calls for repose abstinence & The Electric Rod does not more certainly attract lightning from the clouds, than debility invites depression & depression to disease. - Debility & depression do not always exist in a separate state, they are often combined, both existing at the same time in different parts of the body. Accession of a Stimulus acting upon the accumulated excitability seems necessary to the production of disease. A loss of Equilibrium as when first falling asleep & are sometimes sufficient to produce it. Soldiers & Sailors & escape disease while they labour constantly - Physicians seldom sicken till patients begin to get well. - A sudden accumulation of excitability is pre-

In Torpor there is an exhausted state of sensibility  
In Torpor there is an exhausted state of irritability  
and in Inertia there is an exhausted state of  
both sensibility and irritability.



prevented after violent exercise by abstracting it gradually. When Stimuli are continued so long as to induce debility, obstructions & may be produced without disease, & this may be termed disorder. -

Disorders are morbid affections in different parts of the body, in w<sup>ch</sup> there is a want or expenditure of excitability with a waste of sensibility & irritability; a want of sensibility and motion; it occurs in the forms of Stupor, Torpor, Inertia &c. It is very commonly occasioned by the force & number of Stimuli being so great as suddenly to destroy excitability, thus preventing the production of disease. Disorders are most common in southern climates. Chronic obstructions of all kinds are disorders. Disorders are many, disease is an unit. -

3<sup>d</sup> General Proposition. All the remote & exciting causes of disease, however diversified, are an unit, all included under the name of Stimulus, the diseases produced by them the same



exciting



just as fire is the same whether generated by Friction, Percussion, Detonation, Electricity &c

4<sup>th</sup> 3<sup>rd</sup> General Proposition. Disease when excited consists in morbid excitement or irregular action in w<sup>h</sup> nature is driven from the helm & the functions of the body are performed with difficulty. — Excitement may be excessive but not morbid, as in the excessive or elevated excitement produced by running, dancing, or any violent exercise. Disease is often combined with the remains of depression, & sometimes of predisposing debility. The remote & predisposing causes of disease are often blended together, & act at the same time, also the exciting & predisposing. Disease is either obvious or febrile, or it is suffocated. Reaction is the effect partly of the elasticity of the muscular fibre. 5<sup>th</sup> Morbid excitement is often greatly disproportioned to cause suffocated excitement. Suffocated excitement includes prostration & depression — Discovers itself by wakefulness, flushed countenance, &c.



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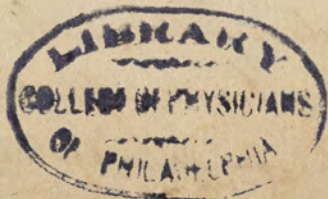


lowness or redness of the eyes, pulse natural. It may be converted into obvious disease by Ref. 8 & 4<sup>th</sup> General Proposition. Morb: excitement or disease is always partial. I know of no disease which invades every part of the system. Thus in Fever it is confined chiefly to the Bloodvessels; in Mania, to the brain, in Tetanus to the Muscles & in Dysentery to the Intestines. Absence of excitement in some one part seems necessary to favour its accumulation in other parts. Absence of healthy excitement in one part seems necessary to a morbid accumulation of it in another. There are frequently days, weeks & even years between debility & the Morb: excitement produced by it. —

9 5<sup>th</sup> Last General Proposition. There is but one Fever, one disease, throughout the whole world, & all the forms of it are produced by morb: excitement or irregular action. There is but one sin, & that is self-love. Adam was affected by debility in his will when he ate



\* In Morb: excitent<sup>t</sup> The whole system is more or less  
deranged - a kind of Delirium invades the diseased  
parts old associations are destroyed & new ones formed  
The Solids are over stretched or contracted - The  
fluids are propelled out of their natural channels  
Error Loci becomes general





of the forbidden fruit. It is immaterial where situated or however varied by texture, still I contend for the unity of disease. You will see that I differ from Brown in my principles, he makes debility a disease, I make it one of the causes of disease. Obstructions & Schirrus of the Liver are effects of disease, & not disease. All disorders are confined to cases where morbid excitement has ceased, or was never excited. Disorders are many, disease but one. Many persons die of debility & disorder without disease. When disease is present the whole system is more or less deranged by it. There is preternatural excitement without excitability, & excitability without excitement. Old associations are discovered & destroyed. The system, <sup>affected</sup> by disease may be compared to a ship in a storm at sea. Nature is driven from the helm & every thing is thrown out of its natural situation.

Disease may be compared to a ladder ascending & descending by the follow<sup>g</sup> steps. —



✓



- 1<sup>st</sup> Elevated ordinary excitement
- 2<sup>d</sup> Debility or Predisposition whether for action or abstraction. —
- 3<sup>d</sup> Supernatural accumulation of excitability
- 4<sup>th</sup> Depression
- 5<sup>th</sup> Action of an exciting cause or an instant
- 6<sup>th</sup> Disease or morbid excitement. —
- 7<sup>th</sup> Oppression or suffocated excitement
- 8<sup>th</sup> Prostration of excitement below the point of reaction to such a degree as to be relieved by stimulants & evacuations.
- 9<sup>th</sup> Disorders or effects of disease
- 10<sup>th</sup> Debility left by the cure or removal

of the disease. — This is the usual order, but there are many exceptions. Sometimes remote causes leap over debility & depression & directly induce disease. Sometimes overleap disease & produce disorders. Remote causes are sometimes so violent as to leap over all the intermediate steps inducing sudden death. We sometimes see debility, depression, oppression

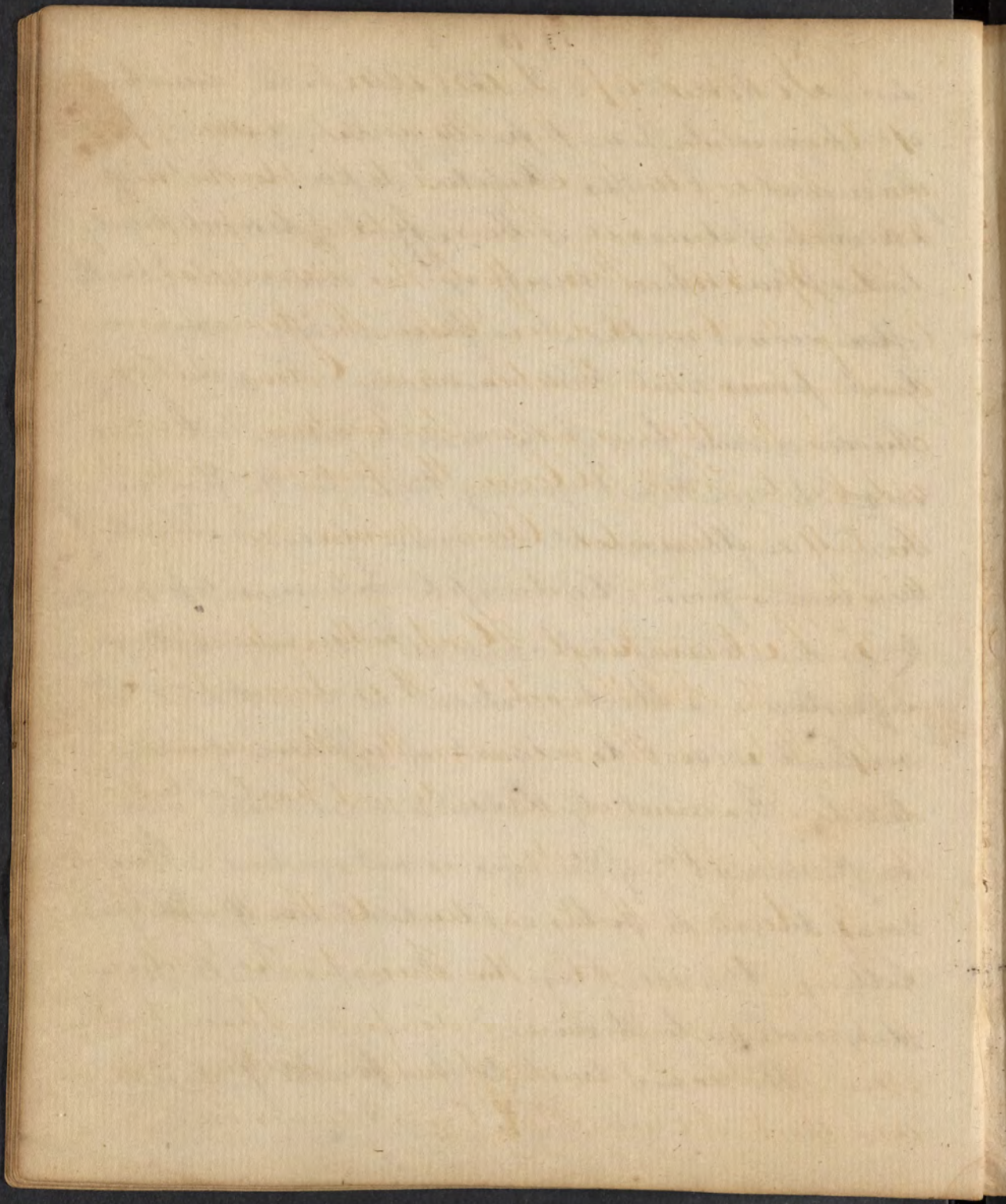


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disease, disorders, & Death, all at the same time occupying different parts of the system. Inflammation (not as Hunter supposed the highest grade of disease) is the effect of disease & only takes place when morb: ex: is moderate. Death often occurs without inflammation, as in violent Fevers that kill suddenly - They kill by the immense force of the remote cause extinguishing life without giving time for the production of inflammation or even disease. Death often occurs from Hydroceph: Internus, Apoplexy &c without any inflammation discoverable on dissection. Morb: excitement is sometimes so violent as not to admit of effusion of any kind. The worst Ophthalmia are those where inflammation of the eyes is not evident - They may be made so by a plentiful use of Blood-letting. We are born with an innate predisposition to disease

We come next to the forms of disease





19

## Forms of Disease. — These are

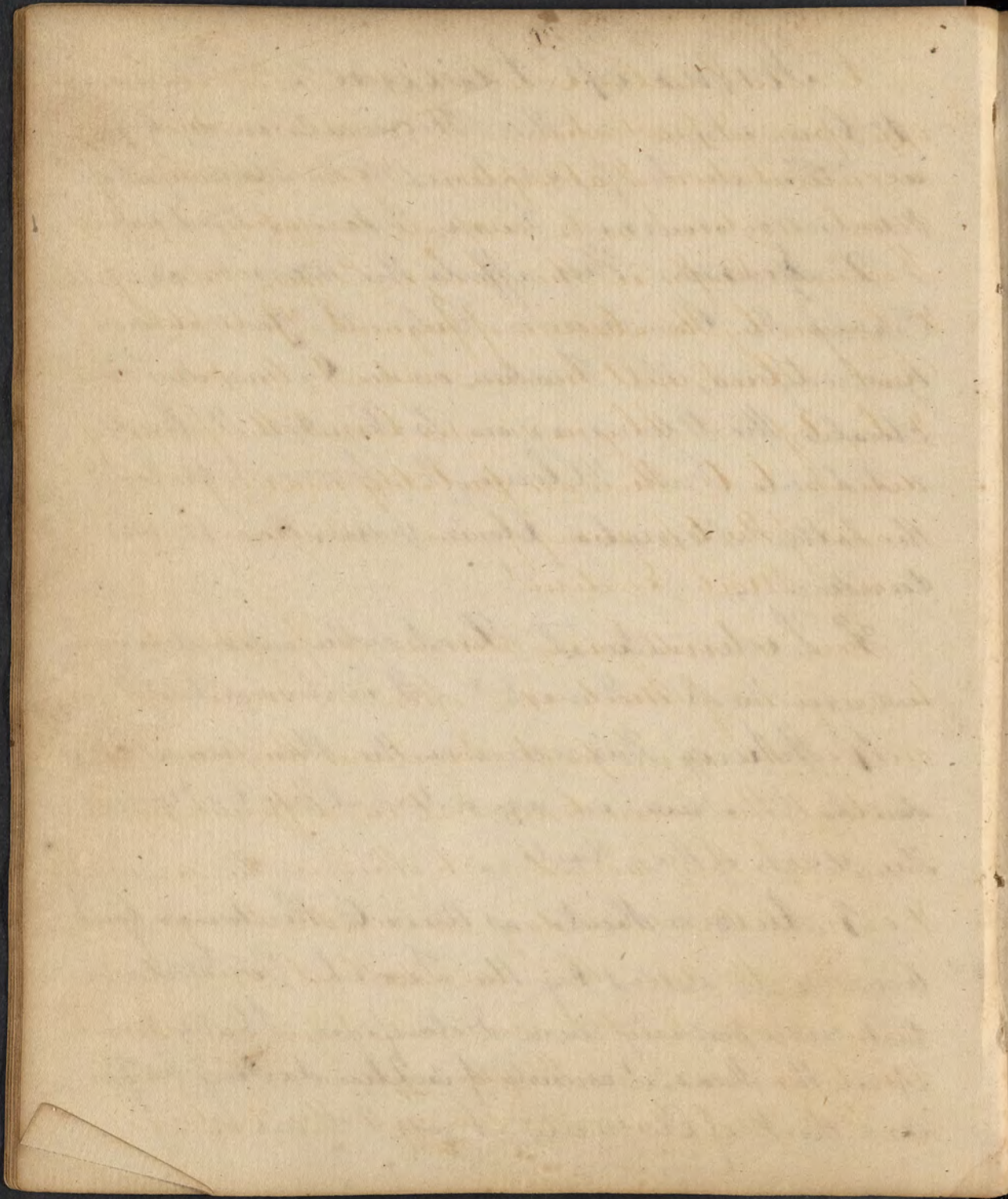
1<sup>st</sup> Convulsion, or the Proximate cause of Fever — This is chiefly confined to the bloodvessels & muscles, occurs in Fevers, Tetanus Epilepsy &c

2<sup>d</sup> Spasm. This affects the muscles as in Cramp, the Bowels as in Colic, the Stomach as in Gastrodynia, the Trachea, as in Cynanche Trachealis, the Uterus as in Parturition &c This divided into Tonic & Clonic, the former is constant the latter alternates Clonic spasms occur in Parturition —

3<sup>d</sup> Preternatural Heat either external or internal, as in the Skin Stomach &c — It is always local. —

4<sup>th</sup> Festing This occurs on the Skin, Anus, Peridenda &c Never on an internal part or beyond the reach of the Nails. —

5<sup>th</sup> Aura or Shocks as Aura Arthritica in Gout, & an aura called by the French *Tic Doloraux*, but more properly *Aura Dolorifica* I have known it in the head, it consists of sudden darting pains — as a shock of Electricity it goes & comes on. —





6<sup>th</sup> Suffocated Excitement. This includes oppression & prostration. It consists in such an accumulation & absorption & concentration of Morb: excitement as to suspend sensation & motion. It occurs chiefly in the Lungs, Brain, Bloodvessels & is known by the absence of frequent & full pulse & of heat. Heat will become evident, the pulse rise & by &c. - It by no means limit the forms of disease to 6. There are probably many grades & shades of the 6 primary forms - All issue from one Cause - Morb: Excitement. -

There is hardly any disease confined exclusively to one form of Morb: &c. Often 2 or more exist at once in the same part - Sometimes they are all present at the same time, but in different parts - Sometimes they succeed each other in the same part & even on the same day. As we see Storms sometimes with Rain then Wind, Hail, Snow &c. Now Storms are an unit & arise only from one cause - Morb: excitement in the Atmosphere. -

Thus Gent: have I given you the History of

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The phenomena of disease - It may be seen in every disease in a greater or less degree. Nosology may be compared to old Heathen Mythology.

Nosology many headed monster slay no more  
Let unity of Disease perform the cure.

### Application of the above Principles

When excitement is elevated, regard the system in an unsafe state. Remove Stimuli of all kinds & advise rest. Remove the Predisposing cause (debility) by gentle Stimuli gradually applied. Defend the system with double the care when debility is greatest, at midnight, in the morn<sup>g</sup> and evening. Gradually spend excitement, to prevent accumulation of excitability & depression. If disease consists in irregular action, let y<sup>r</sup>. remedies be calculated to make it regular. Is disease an eruct<sup>n</sup>? then why not remove the same grade of it, wherever seated, by the same remedies. Typhus pulse, whether it occurs in Fever in Pulm. Consumpt<sup>n</sup> or in Mania calls for similar remedies. The same grade of morb. excitement in



& repels

\*  
2 Disease produces congestions in the blood vessels  
this begins in the veins



the Lungs, Brain, Liver, Bowels &c call for similar remedies. I do not however mean to say that disease is always to be cured by the same remedies. They require to be varied accord<sup>d</sup> to the part affected, & to the violence of the disease &c

### Effects of Disease. —

1<sup>st</sup> Inflammat<sup>n</sup> or effusion of red blood into the serous vessels, so much so as to raise the parts, as in Ophthalmia sometimes inflammat<sup>n</sup> is so high as to rupture the vessels — an error loci. The action of the vessels in the inflamed part is diminished, but that of the surrounding parts increased. After this has continued for some time, the circulation becomes languid, & congestions tumours &c are formed. —

\* 2<sup>d</sup> Secretion or effusion of serum &c Constituting Dropsy, Gravid, Pus f<sup>m</sup> unbroken as well as f<sup>m</sup> broken vessels. Black secretions of the Stomach as in Ty. Fever, matter of Carbuncle, Small pox &c This effusion of serum is often formed into membrane as in the Trachea, Uterus, & Lungs. —

3<sup>d</sup> An increase of secretion & excretion, as



I have been thinking of you  
 and wondering how you are  
 getting on. I hope you are  
 well and happy. I have been  
 very busy lately, but I  
 have managed to find some  
 time to write to you.

*My dear friend*

I have been thinking of you  
 and wondering how you are  
 getting on. I hope you are  
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 time to write to you.



Mucus Semen &c

4<sup>th</sup> To induce Scirrhi, Indurated tumours &c

5<sup>th</sup> To produce unnatural sensibility & irritability or a deficiency of both or either of them. As in Hyster. Inertia &c

6<sup>th</sup> Eruptions

7<sup>th</sup> Changes certain parts into Bone

8<sup>th</sup> Produces Cancer. —

9<sup>th</sup> Certain changes in the blood & all the fluids of the body, rendering them Acid. & altering their proportions —

10<sup>th</sup> Death, Partial or General — Partial death is Gangrene. —

The Seats of Disease are sometimes with difficulty ascertained —

1<sup>st</sup> Because diseases are sometimes dumb, shewing no fever pain heat &c

2<sup>nd</sup> From the effects of Sympathy we find it impossible to judge precisely of the seat of the disease. — How many diseases of the brain are produced by an







affection of the Stomach & vice versa, & how often do the signs of disease in one appear in the other. A woman was seized with a puking & discharge of bile from the intestines, which was supposed to be brot on by a Schismus of the Liver, these symptoms continued & she died. Upon dissection, the liver appeared to be in a healthy state & her uterus alone was diseased. —

3<sup>d</sup> In all general diseases the seats change with the weather, seasons of the year, Remedies employed & in certain Stages also. —

4<sup>th</sup> Dissections will not teach us the causes of diseases. 1<sup>st</sup> Because they often shew us none 2<sup>d</sup> They deceive us by presenting effects for causes Thus ulcers in the Lungs in Pulm: Consumpt<sup>n</sup> are the effects & not causes. Water in the brain tho't to be the cause of Hydroceph: Intern: while it is the effect. Happily for us we can cure diseases without being acquainted with its seats. Tho' I mention it is difficult & often impossible to find out the principle seat of disease, yet I



# Happily for us we can cure diseases without knowing its seat. We have an important resource in both the arms - These sent signals - It indicates diseases better than any thing else - I mean the Pulse & if this at any time fails - the tongue Countenance respiration &c may perform a vicarious office for it. An uniform knowledge of the seat of disease w<sup>d</sup> be useless - The whole arterial system with the viscera connected with it are as much an unit as any other viscus of the body - & the same action that occurs in one takes place in the whole. -

x They have been divided into common & proper, also into Primary & Secondary - Symptoms of disease have also been divided into Diagnostic & Pathognomic - They are however uncertain & unnecessary



am far from thinking this kind of knowledge un-  
 attainable or altogether useless. Thus diseases of  
 the head yield most readily to purging. Those of  
 the lungs to V. & those of the limbs to V. and  
 Clisters - 3<sup>d</sup> We often find marks remote from  
 the diseased part; for instance, a stone in one  
 kidney with disease in the other - I do not in-  
 veigh against Dissection but recommend it in  
 certain parts of the Body. #

Signs of Disease - A few observa-  
 tions necessary. +

1<sup>st</sup> Relation, Sympathy & Association are dif-  
 ferent in the diseased & healthy state

2<sup>d</sup> Signs of the same disease different in differ-  
 ent people -

3<sup>d</sup> They differ in the Force of the same dis-  
 ease in the same person. -

4<sup>th</sup> They differ in Climates -

5 They are in many instances a part of the  
 same Disease. -

6 They differ in the same diseases. -



My dear friend  
I have just received  
your letter of the 10th inst.  
and am very glad to hear  
from you. I am well and  
hope this finds you the same.  
I have not much news to write  
at present. I am still in the  
same place and doing the same  
work. I am very busy at  
times but always find time  
to write to my friends. I  
am sure you are all well.  
I am very affectionately  
to all of you. I am  
yours truly,  
John Smith



7<sup>th</sup> They differ as they relate to its form<sup>d</sup> State

8<sup>th</sup> They differ as they relate to its beginning, increase, height, crisis, & tendency to Health. Continence is the sign of Predisposition to Dysentery Vertigo of Predisposition to Apoplexy.

Opinion of the danger of diseases are formed

1<sup>st</sup> From perspiration, Urine & feces, including the quantity, quality & times of discharge 2<sup>d</sup> The tongue

3<sup>d</sup> Respiration - 4<sup>th</sup> Conversation - 5<sup>th</sup> The position of

the body in bed 6<sup>th</sup> State of the muscles 7<sup>th</sup> appetite

8<sup>th</sup> Senses & Mental Faculties - 9<sup>th</sup> State of the Body

as to Heat or Cold - Existence or the non existence of pain - also the nature of it.

Pain.. - There are 3 Causes of Pain

1<sup>st</sup> Stimulus over distending & producing a tendency to mechanical solution, as in Fever, luxation of bone

2<sup>d</sup> By such a relaxation of Fibres as disposes them mechanically to contract

3<sup>d</sup> Certain Chemical Stimuli

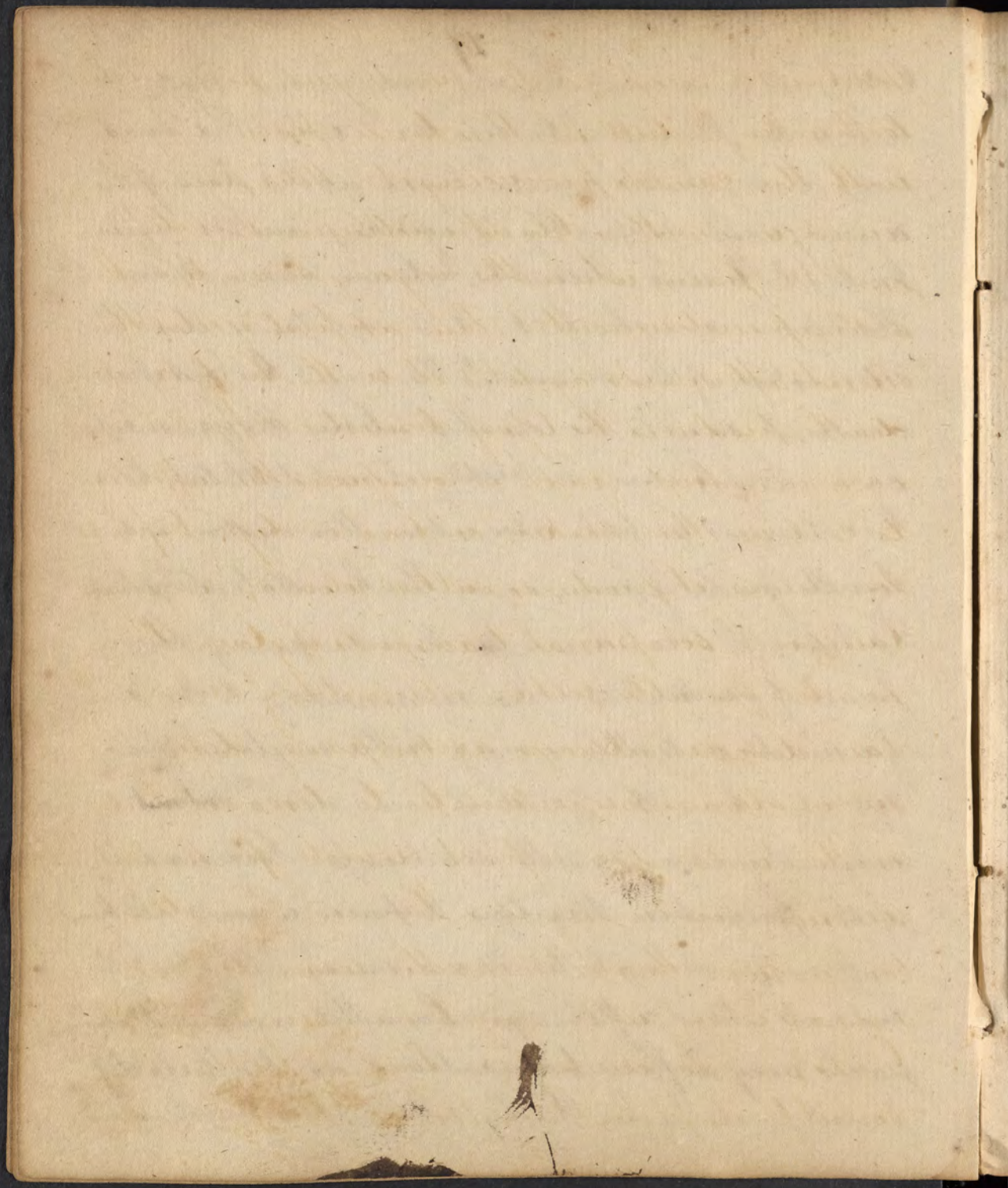
The signs of pain appear in every part of the

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body, all in a convulsed or contracted state, &  
 hence the phrase of biting the Dust. The head  
 pays dearly for its preeminence as the seat of the  
 mind, as it suffers by sympathy with every im-  
 portant Viscus - Stomach, Uterus, Liver, Spleen -  
 That pain may be felt, it is necessary that the  
 extremities of the nerves & the mind be not pre-  
 occupied so as to be elevated above the grade of  
 pain. Sometimes in highly elevated states, Clis-  
 ters cannot be felt, also when the system is be-  
 low the grade of pain, as in the low state of Typhus  
 Epilepsy & Drunkenness has suspended the  
 pains of parturition - An insensibility to the pain  
 of wounds in battle owing to the excitement of the  
 system above the grade of pain - Some submit to  
 severe operations with readiness. Insensibility  
 of the primitive Martyrs to pain amidst all their  
 sufferings owing to the same cause. As also of the  
 Indians when suffering. Pain tho' an unit in-  
 parts very different sensations, as it affects dif-  
 ferent parts of the body - thus it is twisting in







the bowels, acute in the head, jumping in the toothache, & dull in the liver; pain varies with the causes producing it - thus pain from an injury with a blunt instrument is different from pain, when the injury is made with a sharp instrument. Pain at first excites the mind, afterwards agitates it with the fear of death, produces the loss of domestic affections - in a very high grade it occasions the sufferers to call on their maker, or dear or departed friends. Sometimes it produces sullen silence, singing, laughing, occasional transports of joy. Pain is most sensibly felt in extremities of nerves. Pain does not always accompany diseases nor is always proportionate to disease. Pain is often induced in a part remote from the impression producing it. Pain is of an attractive nature - this explains the reason why fevers attended with much pain in the back & loins are rarely fatal. Pain is felt most sensibly in persons of a Muscular Predisposition.



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Women are most susceptible of pain during the periods of Menstruation & Pregnancy. —

Circumstances of a Consolatory nature with respect to pain — 1<sup>st</sup> It is seldom constant but has intervals of ease & it is then best borne as we see in Colic Stone & also best borne when it comes on gradually.

2<sup>nd</sup> Incurable pain is seldom acute but dull as in Cancer & 3<sup>rd</sup> Constant pain is contrary to Nature as it destroys itself by wearing away the excitability — Related to pain is Anxiety — Nausea is another sign of disease different from pain & Anxiety

A uniform knowledge of the seat of pain is not only useless, but hurtful to us. As we cannot tell whether its Concave or Convex surface be affected, or whether its Arteries or Lymphatics. The whole arterial system with the viscera connected with it is as much an unit as any other viscus of the body. — Pain is by no means the only sign of disease — in



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Both arms there exists a more certain sign than in any other part of the body - I mean the pulse - When it fails to give us any information of disease w<sup>h</sup> is very seldom the case - The Tongue excretions &c may give some insight or the Countenance perform a vicarious office for it - By the pulse we can prescribe remedies for it without knowing its seat - By an attention to it I have discovered diseases & prevented death when the patient did not complain. Of all the signs of disease I regard the pulse as the most valuable - Let not any of them direct you to the causes of disease, or in your prescriptions for them - My doctrine rejects none of them, but in it the greatest homage is paid to the

## Pulse.

The pulse may be called a Nosometer, or compared to the dial plate of a watch or clock; it informs you of all that is going on within. In



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order to acquire an accurate knowledge of the pulse in its diseased state, it is necessary that we sh<sup>d</sup> be acquainted with it in its healthy state & also in the different stages of life. In the healthy state of the pulse it is open, vigorous, free from all resistance & is at equal intervals between each pulsation. This state differs under different circumstances. — 1<sup>st</sup> It varies according to the age of the person; at the commencement of life or a few days or weeks after birth the pulse ranges between 130 & 140 strokes in a minute. Towards the end of the first year 124 at 2 y<sup>rs</sup> of age fr<sup>m</sup> 108 to 110 at 3 y<sup>rs</sup> from 80 to 108, at 4, 5 or 6 y<sup>rs</sup> of age from 80 to 100 & at 7 it falls fr<sup>m</sup> 90 to 72. In adults it is fr<sup>m</sup> 60 to 88 generally 66 in the minute. In old age it is less frequent & more full. Slow & intermitting. This is so much the case, that when it differs fr<sup>m</sup> it, it shews signs of disease. At the age of 60 the pulse beats 60. In an old person of this city it beats only 36. In some according to Dr Heberdeen it descends as low as 26. —



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2<sup>d</sup> Sex influences the pulse in its quickness. That of females being more frequent than that of males as women are more irritable.

3<sup>d</sup> Different states of Society or Civilization influence the pulse. It is slower in Savages than in persons bred up in a civilized state - hence too the pulse is less frequent in Countrymen than in Citizens. - I have felt the Pulse of 10 Indians and found it below 60 in eight of them the other 2 reached that number, but one of them had been previously sitting by a fire & the other was the offspring of a Frenchman. All those who spend their time in idleness have slower pulses than those who are busily employed. -

4<sup>th</sup> The sizes of people affect the Arterial system, its pulsatory motion being quicker in the short or low - *Ceteris paribus* than in the tall Haller says in very tall men it is not more than 35

5<sup>th</sup> Climate & the different seasons of the year affect the pulse, being quicker in warm than in cold climates. In Greenland it scarcely exceeds



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40. In the W Indies quicker in new comers than in the old inhabitants. In new imported slaves it is quicker than in those we have had for some time among us. —

6<sup>n</sup> Different times of the day influence the Pulse. It is slowest in the morning, at noon it is highest, & then gradually descends till evening; at bed time it is generally slower on acct of the exhaustion of excitability.

Different degrees of light & darkness important. —

7<sup>n</sup> Different in the sleeping & waking state, quicker in the latter by 8 or 10 Strokes. —

8<sup>n</sup> Different positions of the Body influence the frequency of the Pulse, thus it is slowest when on the back, quicker when on the sides, quicker still when sitting up, & quicker when in an erect posture.

9<sup>n</sup> Fasting, Food, & drinks, especially such as are stimulating. It is accelerated by a full meal & decreased by fasting for some time, but afterwards it rises. So persons who die of famine, die of a fever. —



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10<sup>th</sup> Different positions of the arm influence the pulse - when the arm has been exposed to the cold some time, the pulse becomes much slower, & also when the arm is pressed under the body. & when its muscles are in action. Hence the propriety of warming the arm & relaxing its muscles when we feel the pulse.

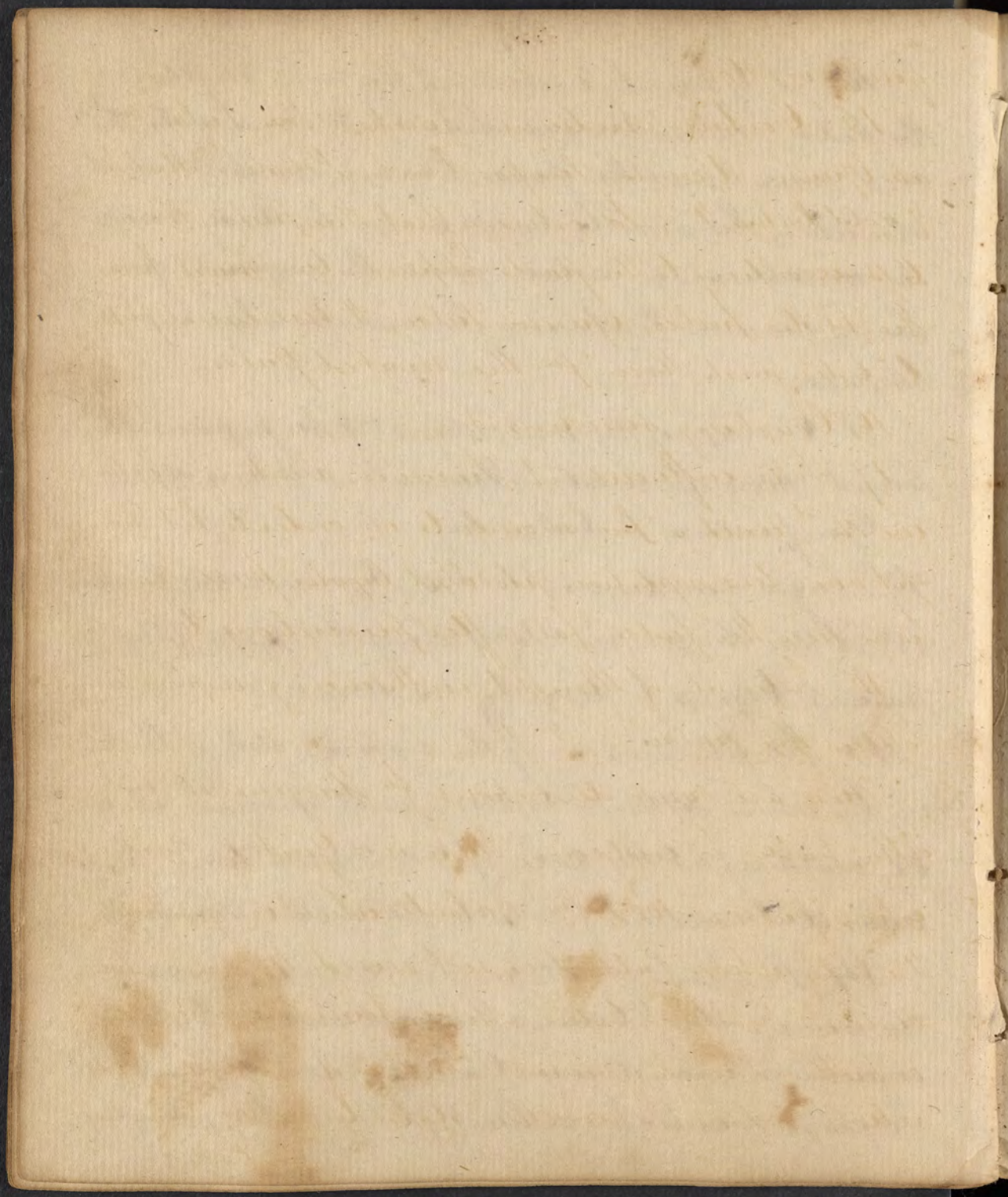
11<sup>th</sup> Exercise of the understand<sup>g</sup> & the passions of the mind - those of a sedative lowering it & vice versa - Grief reduces it below 60

12<sup>th</sup> Anger quickens it to 140. Conversation quickens it - Hence the propriety of feeling the pulse before the patient begins to describe his disease.

13<sup>th</sup> Bodily exercise. If the natural state of the Pulse be 64 when sitting standing will increase it to 68, walking at the rate of 2 miles an hour 78, 4 miles 88 & running, fr<sup>m</sup> 110 to 150 in the minute.

14<sup>th</sup> Pregnancy quickens it, Quicker also when the menses flow, & during menstruation. It is of consequence to know this in Chronic cases of disease. All Pregnant women have their pulse preternaturally.







quick or slow

15 Certain medicines quicken the Pulse, such as Opium, Vomits, Purges, Bark, Blisters, Steel, hot & cold baths &c. Blisters affect the pulse more or less according to the parts applied. We must know the Blister pulse, Opium Pulse, & mercurial pulse to distinguish them from the morbid pulse. —

16 Coughing quickens it. —

17 Fear influences it. Hence in visiting a patient we sh<sup>d</sup> wait a few moments in order to let him get over his agitation produced by our presence. I have seen the pulse fall after prescribing &c.

18 Intensity of thought, influencing respiration, lessens the pulse — &c. &c.

There are some deviations from the general rule of the pulse, for instance, there is a Gent. in this City whose pulse is 100 in a minute when in good health, & a lady whose pulse does not exceed 40 in a minute in health & 60 in a high fever. In Men it is supernaturally quick. I heard of a Clergyman whose pulse in a healthy state beat 100 in a mi-



+ by continuous sympathy



nute. A fever afterwards restored it to between 60 & 70 & there it remained - there must have been too much excitability in the system, this diseased or morbid state was removed by the action of the fever. - Before I enter upon the morbid states of the pulse, I deem it necessary to deliver a few Physiological Propositions

1<sup>st</sup> The Heart & Arteries are connected & invested with muscular fibres possessing great irritability, or a susceptibility of being acted upon by the different stimuli, hence if one part be affected the whole will sympathize. They may be compared to the sensitive plant, or to the bells of the Jewish High Priest - touch one & the whole will ring -

2<sup>d</sup> The Heart & Muscular fibres possess irritability

3<sup>d</sup> The same motions excited in one part of the arterial system are communicated to others - this is illustrated by the case of Hicks who died in this city with an enlarged os ventriculi - it preped upon the Aorta & contracted its diameter - & affected the whole Arterial System, for his pulse was very small. <sup>this</sup>







This will lead to an explanation of many other appearances, for in most diseases we may expect to find the same kind of action in the Artery as in the diseased part. Is the pulse tense in acute Pneumony? The same occurs in the Pleura or membrane of the Lungs ~~and~~ the whole arterial System. Is it soft, the vessels are so engorged, that they can't put on a tense action. Are the vessels of the Lungs engorged in Pneumonia No. tha? The same occurs in the whole. Are there interruptions in the pulsations of the Heart, the same takes place in the whole arterial system. Is the Stomach or upper bowels inflamed, the pulse is tense but small, because the vessels of these parts are small. The pulse is more tense & full in inflammations of the Colon, only because the arteries of the Colon are larger. If the pulse is not small in Ophthalmia & inflammations of the joints, it is only because large vessels are brought into sympathy by Contiguity.

There are diseases in which the pulse does not sym =



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pathise, but these are few & may arise from the follow<sup>g</sup> causes - 1<sup>st</sup> From a weakness of the Heart itself, or from a want of irritability. 2<sup>nd</sup> From suffocated excitement. 3<sup>rd</sup> From the disordered state of the artery at the wrist. 4<sup>th</sup> From large portions of fat pressing upon the pulse. 5<sup>th</sup> From an accidental pressure of the muscles of the arm by the posture of the body. 6<sup>th</sup> From cold. 7<sup>th</sup> From want of irritability in the contiguous part. 8<sup>th</sup> From a want of sympathy in the heart preventing it from equalizing the action of the different parts. Or the disease being insolated in the lungs, as in Catarrh, the Artery does not sympathise, so we are to bleed in Catarrh without regard to the pulse. It is slower in inflamed parts. 9<sup>th</sup> From unequal excitement in the bloodvessels, as in the Ataxic fever, of Alibert, in Lalry & Hough. This want of harmony accounts for the fact mentioned by J. Hunter viz - Scurvy blood with a natural pulse. There may be great disease in one part with little action in another. Let not



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the number of these exceptions preclude the feeling of the pulse, for they do not occur in more than one case in 20. We sometimes see the absence of pain in Malignant fevers when the tongue is foul, & vice versa in diseases of less consequence.

Thus I have mentioned the different states of the Pulse as they occur naturally in the different stages of perfect life; but as Physicians it becomes us to go farther & acquire a knowledge of this important part of the human frame as it varies in consequence of the numerous incidents & diseases to which it is subjected, viz - the

## Morbid states of the Pulse.

They are known 1<sup>st</sup> By their frequency & quickness. These are not necessarily connected for the pulse may be very quick & yet not frequent as in the Yellow fever. By frequency is meant the number of strokes in a minute; by quickness the time in which each stroke is performed. The pulse rises from health in quickness & fulness as in Y. Fever, and



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then acute diseases. Here it varies from 60 & 80 to 180 & even 200, & falls in some diseases to 40 30, 20, & in one or 2 cases to 9. In Apoplexy it sometimes falls as low as 7

The quickness is probably caused by an irritable state of the blood vessels, they contract more quickly by the stimulus of the blood (the arteries especially) - this irritability I conceive to be induced by the stimulus of Miasmata. Hence it occurs in Intermittents, Ty. Fever &c. This circumstance in some cases gives rise to the intermitting pulse, this is when there is a cessation of pulsation for a certain time after every 1<sup>st</sup> 2<sup>d</sup> or 3<sup>d</sup> stroke. Frequently occurs in Malignant fevers. -

The Slowness may depend upon 3 causes. 1<sup>st</sup> The pulse as in Apoplexy & Palsy, the pulsations being equal to each other, but intermissions occur. 2<sup>d</sup> Spasms of the Heart. & 3<sup>d</sup> defect of irritability in the Arteries.

2<sup>o</sup> By their force Irregularity. This



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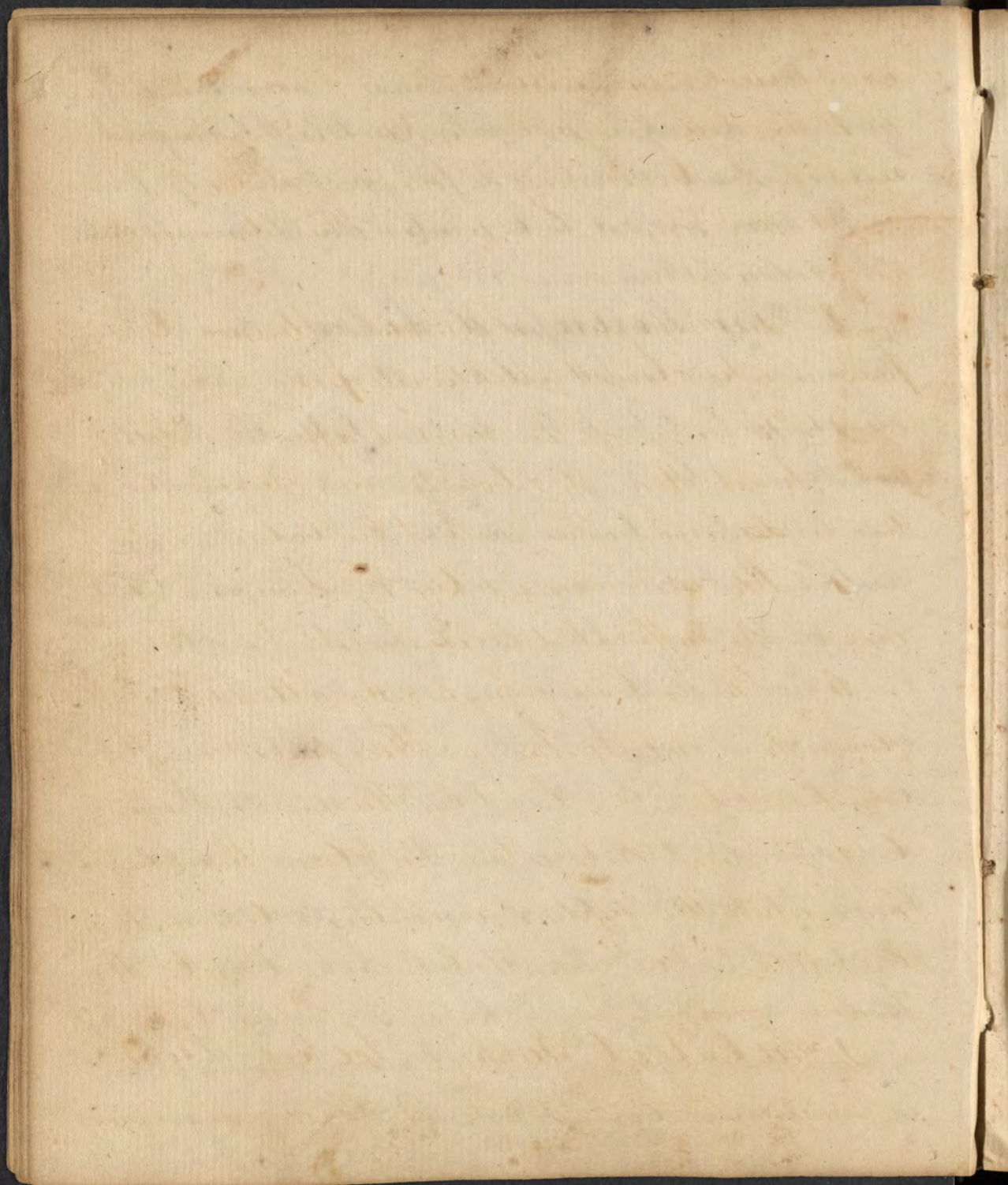


is of more consequence than variation in frequency, quickness & fulness. Also by imparting a jerking sensation to the fingers. —

We now proceed to consider the different states of the pulse as they occur in fever

1<sup>st</sup> The Depressed Pulse. This state of the pulse is occasioned by Stimuli acting so violently as to depress the system below the point of reaction, or by pressure on some great vessel. It often descends as low as 40, 30, 20, & sometimes so depressed that it is imperceptible. It is raised by Op. It is sometimes preternaturally frequent or slow, attended with intermissions, & sometimes natural. It occurs in Plague, Ty. Fever, Malignant small pox & in Pleurisy. It is either partial or general, occurring in the extremities in the former & in the latter in the whole arterial system — occasioned by Stimuli depressing the strength below the healthy state. In this depressed pulse, the Heart & Arteries possess their irritability. It resembles the weak or Typhus Pulse — the follow<sup>g</sup> directions will







serve to distinguish them

1<sup>st</sup> The depressed pulse is known by its occurring in the beginning or forming states of fevers or in the paroxysm of such fevers & other diseases as are periodical —

2<sup>o</sup> By imparting a sensation of tension to the fingers when long & attentively felt. —

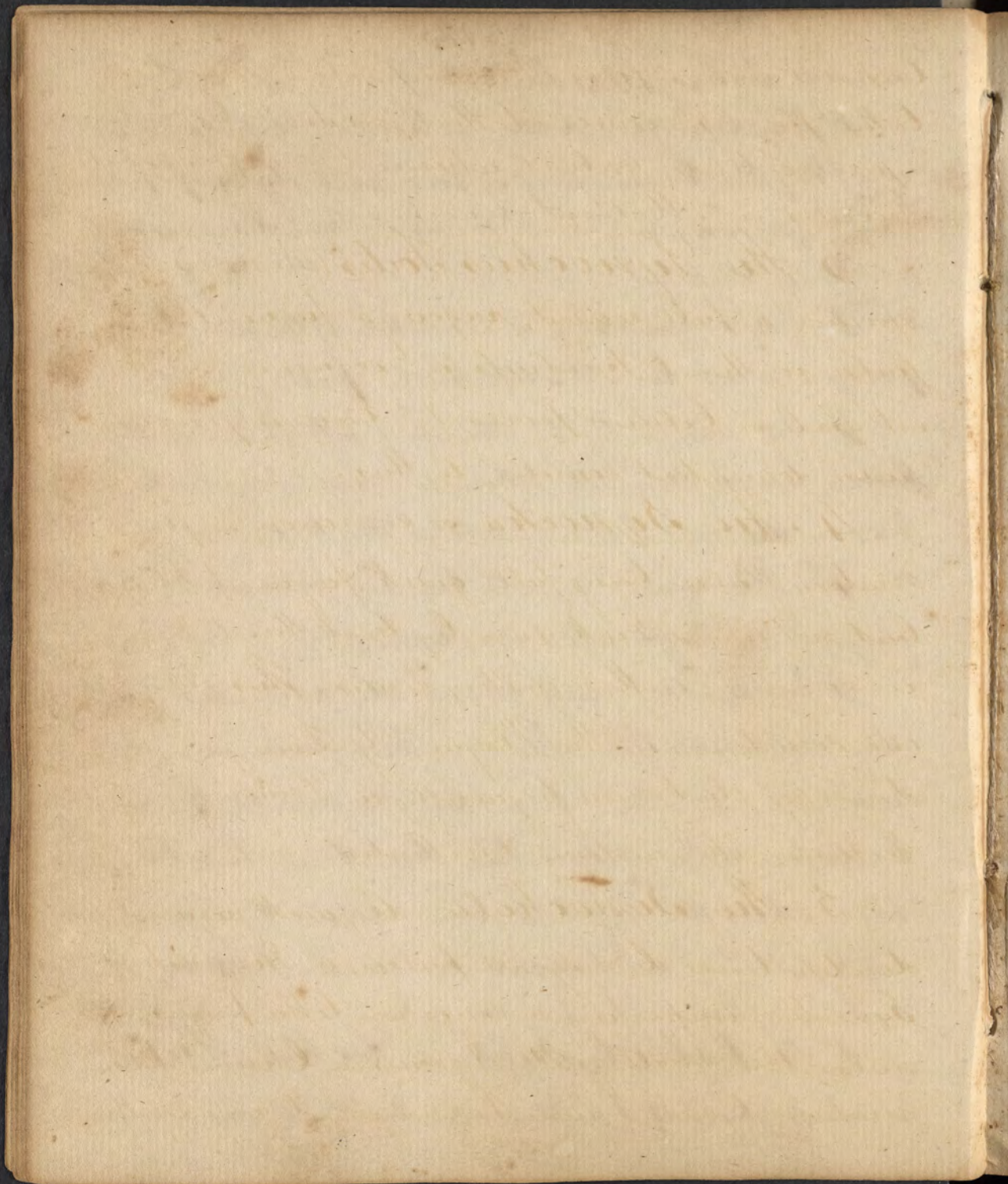
3<sup>o</sup> By occurring in morbid affections of the brain, heart, stomach & bowels, more frequently than in diseases of other parts of the body. —

4<sup>th</sup> By being raised by V<sup>s</sup> & Purges & taking off the suffocated excitement. —

5<sup>th</sup> By its being frequently attended with slowness or intermissions. This pulse may be compared to a tree bent by the winds, & rising to its pristine state when the storm has blown over, while the Typhus resembles a tree shattered by lightning, & it cannot be raised but by the hand of art. —

2<sup>o</sup> The Catgut Pulsy or Locked Pulse  
is small quick, tense, & distinct. It is generally quick







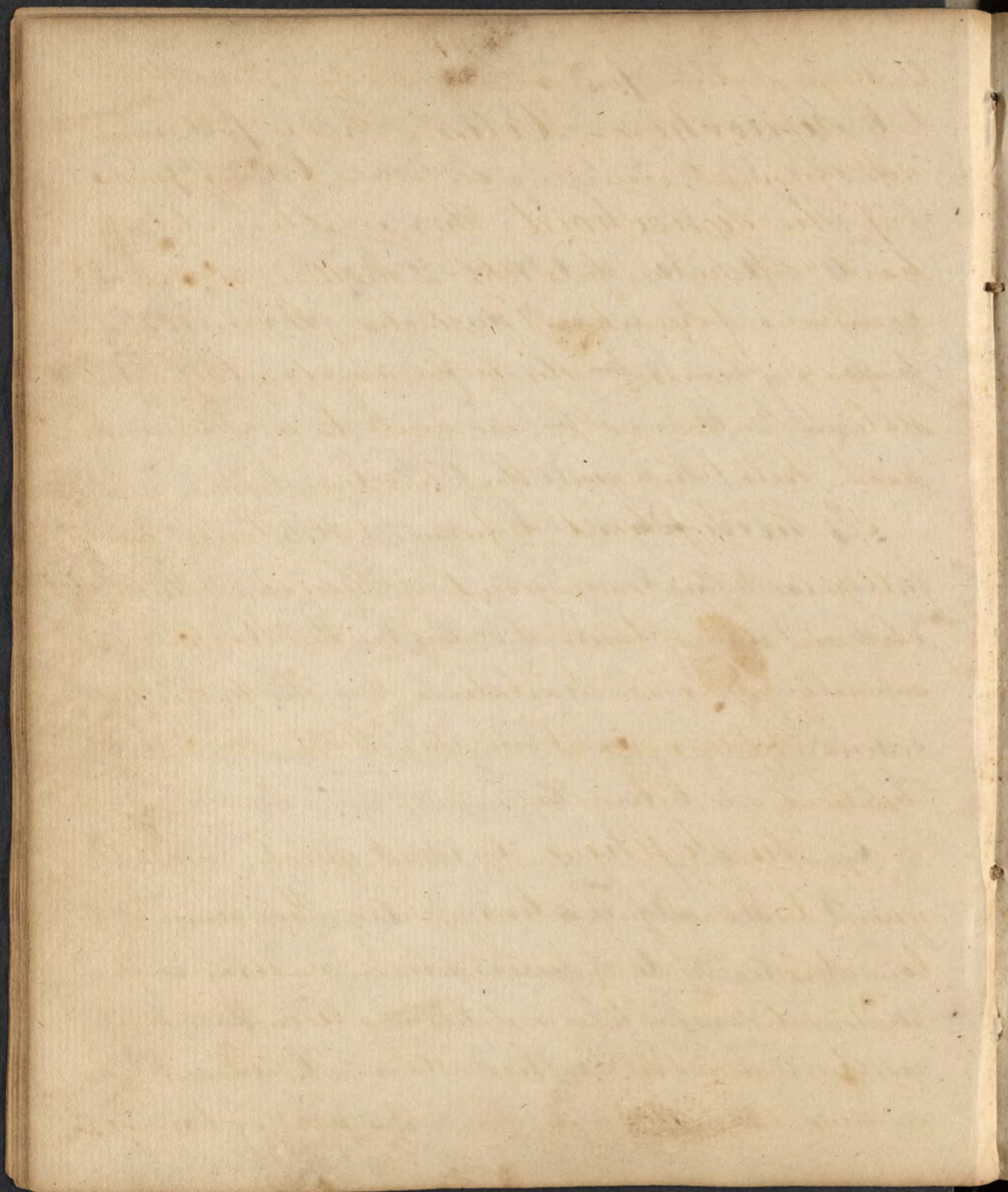
but not always frequent imparts a sensation to the fingers similar to that produced by feeling a piece of tense catgut, whence I have named it. It occurs in Malignant fevers. —

3<sup>d</sup> The Synochus Fortis (the reverse of the 2<sup>d</sup> former) a full, round, vigorous frequent & quick pulse without hardness. It occurs in the highest grade of bilious fevers & Exercise produces a pulse somewhat similar to this. —

4<sup>th</sup> The Synocha or common inflammatory Pulse, being full, quick, frequent & tense, but not round & is known by heat thirst & occurs in common inflammatory fevers. This Pulse exists sometimes in the Plague, Ty. Fever, Jail Fever & Small pox, but more frequently in Pneumonic affections, Rheumatism & Arthritis. —

5<sup>th</sup> The Synochula — A quick, frequent, moderately tense but small pulse, a Diminutive of Synocha — imparting a sensation to the fingers similar to a small quill, & occurs in Chronic Rheumatism, Gout, Phthisis Pulmonalis & also in the







2<sup>d</sup> stage of the Fevers. —

6<sup>th</sup> Synochus Mitis. This is full, round, soft & frequent, occurring in mild bilious fevers  
7<sup>th</sup> The Synchooid. This is alternately a hard & soft pulse, feels like a shattered quill & is composed of Synochus & Synocha. It occurs in the passage of fevers from the inflammatory to the low state of Butler — or from an acute to a chronic disease. Feels like a quill that has been trodden on. —

8<sup>th</sup> The Typhoid. A frequent less tense then full pulse. This is composed of Synocha & the slow chronic state of fevers, & occurs in the Typhic & Puerperile fevers, in Scarlatina &c. The pulses preceding Typhus are above Par. those succeeding Typhoid are below Par. —

9<sup>th</sup> The Typhus. A weak quick small frequent but not full or tense pulse. This occurs in the low chronic state of fevers, also in cases of inflammatory diseases, when depleting remedies have not been used in the first stage. The bloodvessels in this appear to be deprived of a part of their in-



x This pulse could be divided into a third with  
great propriety - viz: 2, 3 or 4 full, tense and frequent  
strokes, succeeded by 4, 5, 6, frequent but rather small  
strokes - This occurred in the case of Mrs. Lein, a  
woman beyond 40. affected with hydrothorax, and  
paralysis! -



ritability it is here that Op. is forbidden & stimulants are to be given.

10<sup>th</sup> The Hectic. The forms of this Pulse are various being occasionally Sympnochoid, Typhoid & Typhus. It occurs in Phthis Pulmonalis Podagra of Tabes, from the Quæ Venerea & Schrophula.

11<sup>th</sup> The Hobbling Pulse is unequal or fluctuating, tense quick & very frequent & may be divided into two - 1<sup>st</sup> one, 2 or 3, quick strokes succeeding a slow one & 2<sup>d</sup> one 2 or 3 slow strokes succeeding a quick one: -

12<sup>th</sup> The Dicrotus & Caprisans Pulse. The former strongest

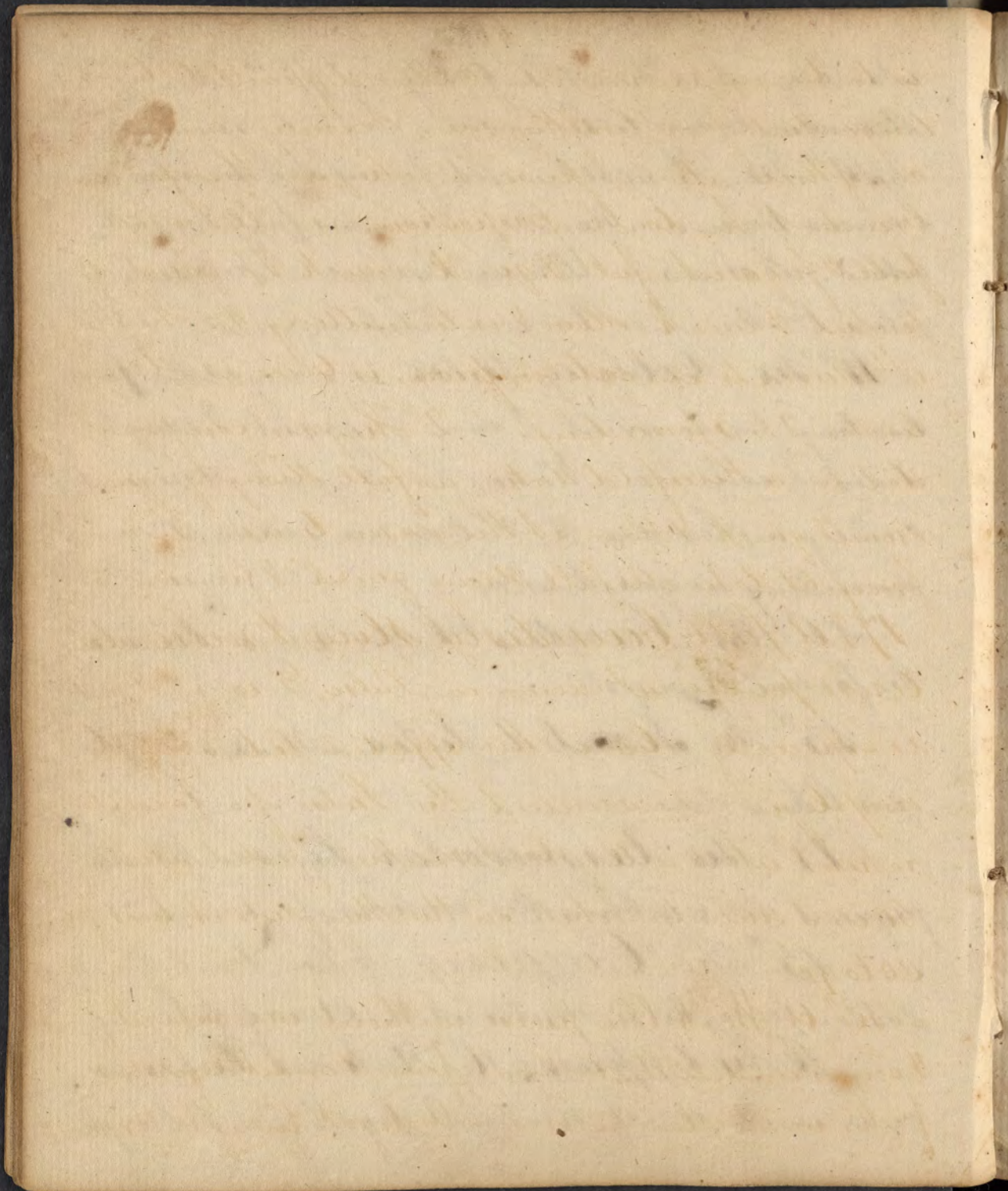
13<sup>th</sup> The Serrated Pulse. Strikes the fingers like a saw.

14<sup>th</sup> The Vermicular Pulse. Small frequent & resembling the motions of a worm.

15<sup>th</sup> The Creeping Pulse. Weak & small scarce perceptible, occurs at the close of life

16<sup>th</sup> The Apparently Natural Pulse, occurs in the worst Malignant Fevers, great danger



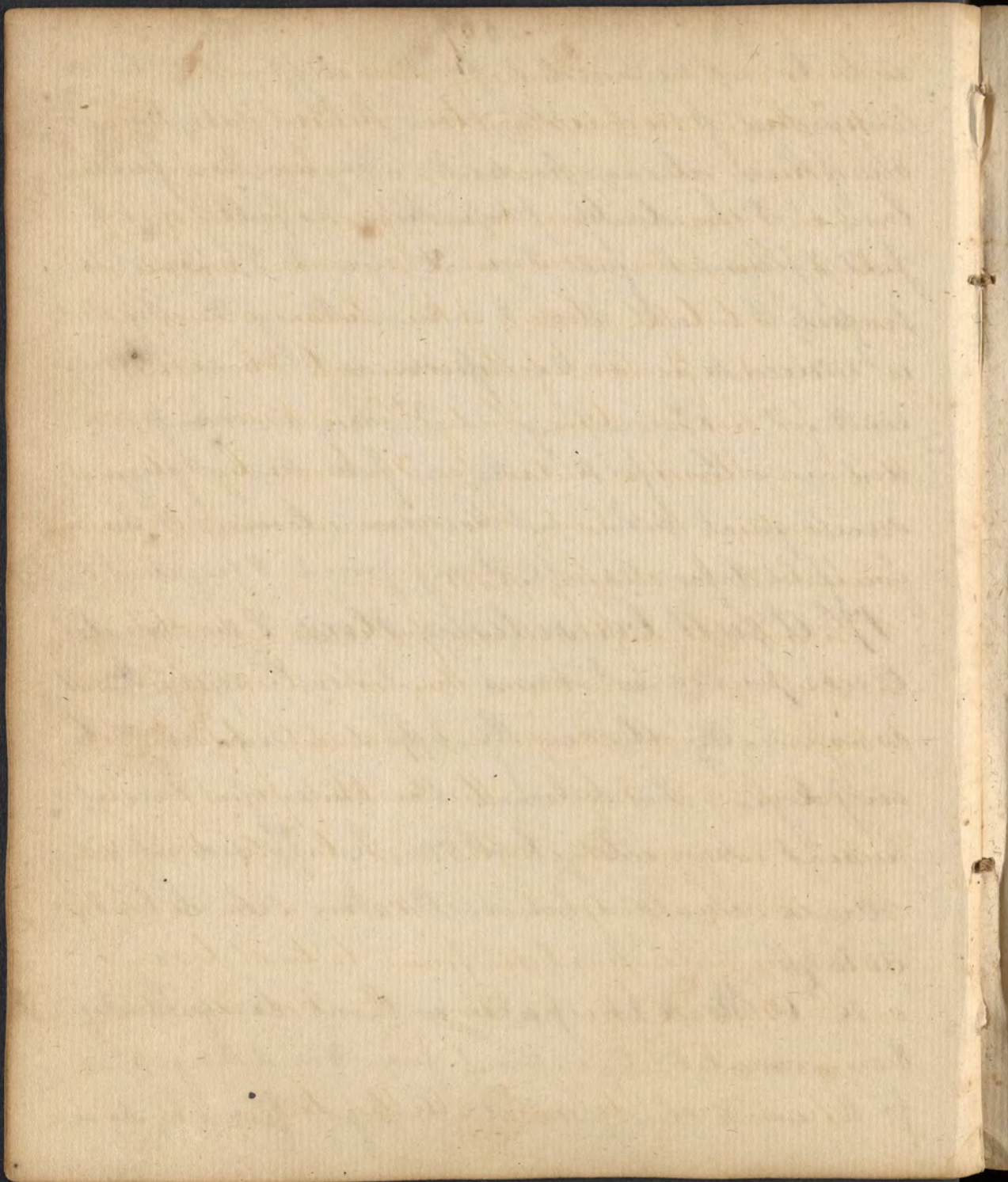




is to be apprehended for this difficult to be distinguished from a healthy one. Scarcely ever any one of these always present. They are therefore combined 1<sup>st</sup> In double proportion, as full & weak full & frequent full & quick, quick & frequent, depressed & weak, slow & intermitting &c. The stroke which succeeds an intermission, is twice as strong as the 2 or 3 preceding. — 2<sup>d</sup> They are compounded in a threefold ratio, as full strong & frequent, small quick & slow at the same time. — 3<sup>d</sup> In a fourfold ratio. As full strong quick & frequent &c. — 17<sup>th</sup> A full bounding, slow, & moderately tense pulse, which occurs in Palsy, Dropsy &c. It is especially slow in the affected side, as in Hemiplegia. I examined the Pulse of a Paralytic patient whose artery beat on the affected side only 50 in a minute while on the other side it beat from 80 to 90 —

18<sup>th</sup> A Weak low pulse without irregularity & occurs in debility, without fever, & is distinguished from the weak slow pulse of Malignant fevers by its oc-







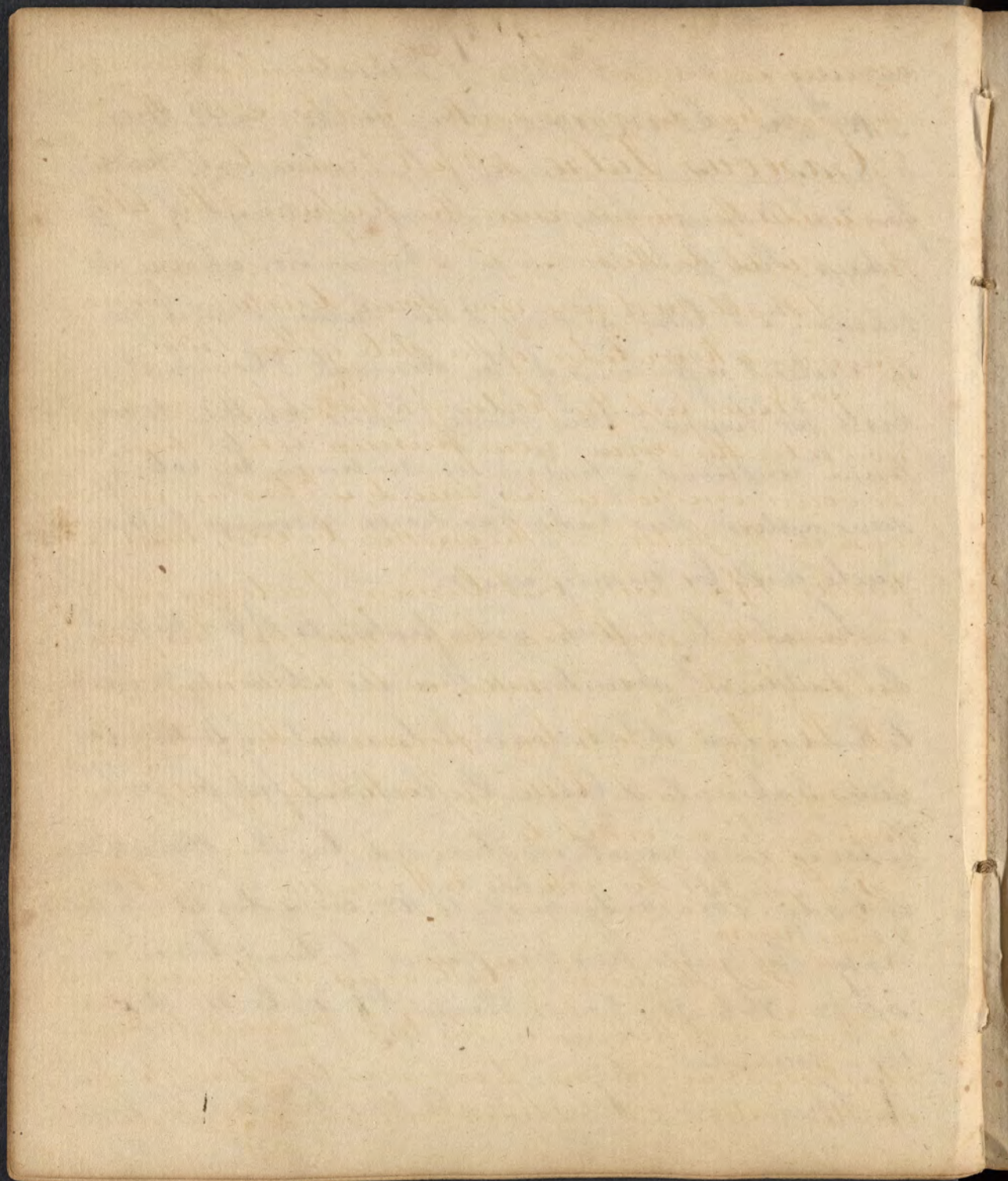
curing in the last stages of diseases.

10<sup>th</sup> The Aneurismatic Pulse. Full, tense & jarring. There is sometimes an absence of pulse for 2 or 3 days. I have heard of an absence of it for 7 days. This pulse occurs in Aneurism, whence its name. A total absence of the Pulse occurs often in violent affections of the Stomach & bowels, it lasts for hours. One Lady I have known to continue without a pulse for 36 hours, by eating some oysters - this lady has since recovered & been quite well for many years. —

In order to inform your patients of the state of the pulse, & sometimes they are extremely anxious to know, you sh<sup>d</sup> compare it to a scale of 10 degrees with 5 above & 5 below the healthy point. The Pulse is very much influenced by the strength of body. In a pidgeon it is 100, in a dog 80. In the Ram the pulse has been found to beat 65 in an ox fr<sup>m</sup> 36 to 38, & in a horse fr<sup>m</sup> 34 to 36 strokes in a minute.

I have now delivered all the Pulses that have







occurred in my practice. Dr Galmaist a French Physician has discovered another wh he calls the

Gaseous Pulse soft full & round but sinking under the fingers, even the pressure of the little finger will do this. —

I shall next give you some directions for acquiring a knowledge of the state of the Pulse. —

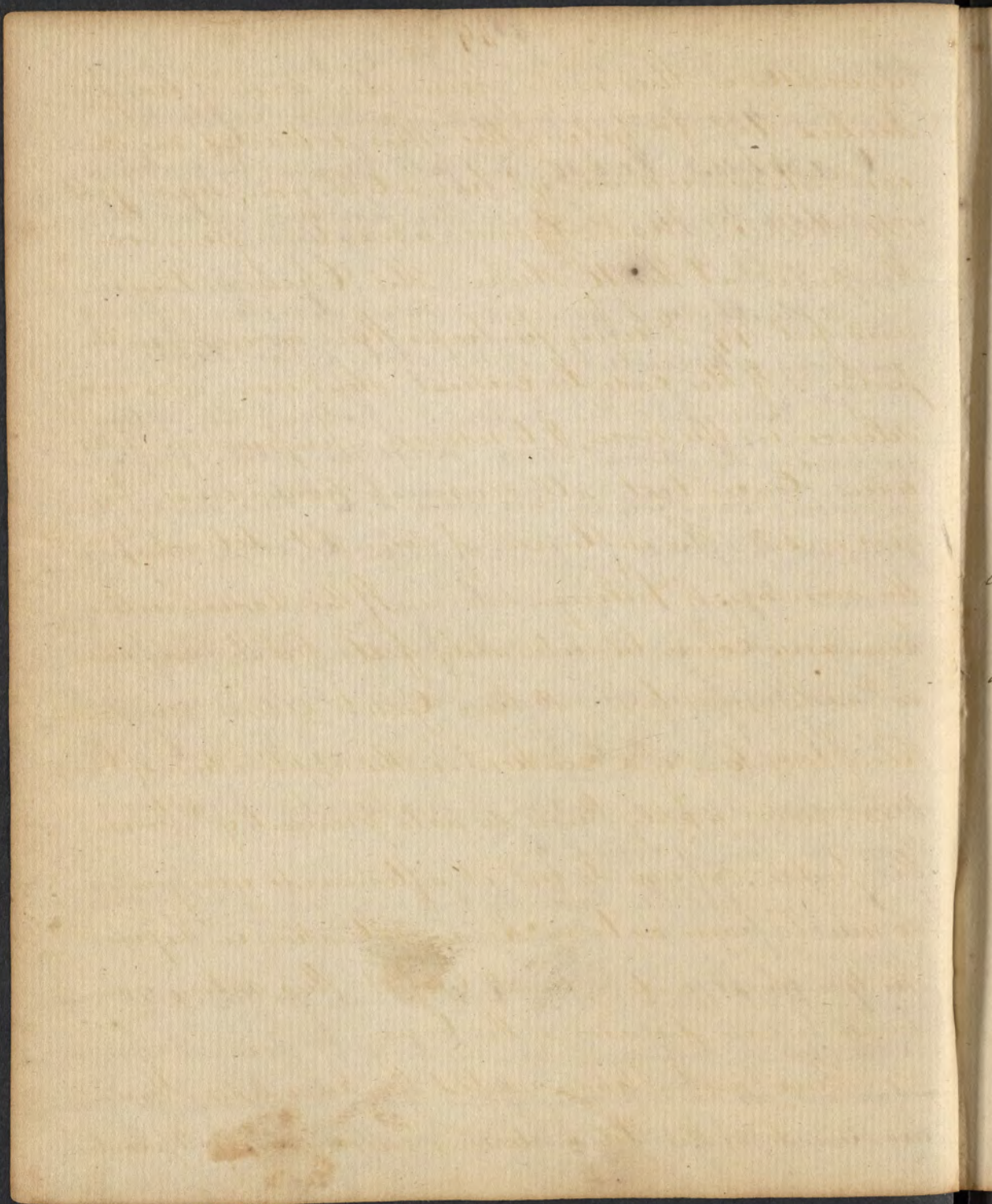
1<sup>st</sup> Never feel the pulse of a patient the moment you enter the room, your presence excites hope, fear or some emotion in his mind, wh has an influence on the pulse. If the weather be cold, warm y<sup>r</sup> hands & feet first, but beware of entering into any conversation with him before you feel his pulse, as the influence of conversation on the pulse is very great.

2<sup>d</sup> Place y<sup>r</sup> whole four fingers on the Artery this gives you a much better opportunity of judging than one finger could do. —

3<sup>d</sup> If you feel the patients left arm, use y<sup>r</sup> right hand & vice versa. —

4<sup>th</sup> Feel the wrist of both arms, as there is in many cases a difference in the two for several circumstances, as an exposure of one arm to cold air, pressure on the Artery &c. I have corrected my judgement







frequently in this way - from one arm I had prescribed Ref. for feeling the other retracted my opinion. Never remove y<sup>r</sup> hand till you have felt 20 strokes. I have observed an intermission in the pulse at the 18<sup>th</sup> stroke. The Chinese Physicians feel 49, thence perhaps their accuracy in the pulse. If the case be critical shut your eyes, order silence in the room, & to use an expression of Darwin's "Concentrate all sensorial power in y<sup>r</sup> finger ends" The influence of sound & detract from the accuracy of feeling. — If the Radial artery from any cause, be not easily felt - feel the Temporal it is the next best - & here Gent. excuse my making mention of a caution in the application of blisters - never apply them so as to prevent y<sup>r</sup> feeling the pulse - if you do feel it afterwards you give him so much pain as to make an alteration in the pulse. The temporal artery must be felt - this artery you must feel in diseases of the brain

Thus Gent. I have related the knowledge I have acquired of the Pulse during my reading & practice







They are the experience of my life - They dictate when  
 bleeding is indicated & in what quantity. Always  
 feel the pulse before you prescribe any of the fol-  
 lowing remedies. Vomits, Purges, &c. the Hot &  
 Cold Baths - Pediluvium - also before the use of  
 Stimulating medicines as Bark & wine, Stimula-  
 ting & nourishing Aliments & Drinks, as they all  
 change the pulse very much. The frequency of the  
 pulse tho' of little consequence comparatively with  
 the force & other characters of it, has been much re-  
 lied on by the Physicians of Europe especially G.  
 Britain. They use for the purpose of acquiring a  
 knowledge of its frequency, moment watches, quar-  
 ter minute watches &c. But this is ridiculous  
 & they will never, I hope, be introduced to Amer-  
 ican practice. A Spanish Physician by the name  
 of Solano has made many observations on the  
 Pulse. From some of w<sup>ch</sup> he asserts that 180 is the  
 greatest number of Strokes w<sup>ch</sup> the Arteries can  
 beat consistently with the recovery of the Pa-  
 tient - 200 in Hydrocephalus is quite common.



which lay the foundation of disease



but whether these ever recover I know not. The observations of Cullen are opposed to those of Dr Solano he says Dr S's observations are useless.

Plato we are told had inscribed over the door of the School where he taught his pupils "Let no one enter here who does not understand Geometry" In like manner were I to dedicate a Temple to medicine, I would inscribe over the door of every apartment - Let no one <sup>depart hence</sup> enter here who does not understand the Pulse.

## Remote Causes of Disease

We come now to enquire into the numerous causes of disease. Diseases have been divided into Idiopathic & Sympathetic. This however is not a good division, for disease is to be cured in the same way whether Sympathetic or Idiopathic. Hydroceph. Intern: is that to be produced by worms in some instances. Here the worms in the intestines constitute the original disease, the Hydroceph. is the Sympathetic. This sympathetic







Hydroceph: is to be cured however in the same way as Hydroceph: ~~from~~ a blow in the head. Diseases have likewise been divided into Contiguous & non-contiguous into Endemic & Epidemic, Sporadic, Vernal, Autumnal &c. The remote predisposing & exciting causes of disease act in producing it sometimes separately, at other times 2 or all of them are combined. — It has been aptly said that as soon as a child comes into the world "it inhales the lurking principles of death". The remote causes predisposing children to disease are — The ignorance of the midwife with respect to delivery — washing the child in Spirits of wine. harsh soap &c — The use of Spices internally & spicing diet &c — Sucking bad milk &c Caps swaddling clothes &c — The manner of education, confinement in close schools &c — The amusements of children subjecting them to falls — Curses &c &c

The Atmosphere produces diseases by its sensible & insensible qualities. The former are



+ Hot air exceeds 96° Warm between 96 & 75  
temperate 75 to 65 - Cool 65 to 32 - Cold below 32° -  
These divisions apply to the Positive & not to the relative  
effects of Cold. —



Heat, Cold, Moisture & Dryness, Density & Rarity. Those of the latter are Marsh & Human Effluvia &c From these, originate all febrile complaints. Air may be divided into Hot, warm, temperate, cool, & Cold &

Of Heat. Heat & Cold are relative terms — Heat is an universal Stimulant — When moderate as at 75 it is friendly to health, but when above this produces debility & inaction. When in excess its effects are shewn 1<sup>st</sup> In the Arterial system by producing Fever & 2<sup>d</sup> When combined with the rays of the sun, it affects the brain producing what has been called insolation, also sleep stupidity & death. 3<sup>d</sup> On the Nervous system disposing it in a peculiar manner to be affected by Stimuli of every kind. — Producing convulsions, syncope & death. 4<sup>th</sup> On the Muscles, producing 1<sup>st</sup> Preternatural activity — 2<sup>d</sup> Indisposition to voluntary motion — 3<sup>d</sup> Torpor & languor, producing inactivity also — Tetanus &c 5<sup>th</sup> On the skin producing itching, pimples, & a Crown co-



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low, when moderate it produces moisture, per-  
 spiration & sweat, but when in excess preter-  
 natural dryness &c - 6<sup>th</sup> On the Stomach, in-  
 creasing the appetite, & then producing a decay  
 of it - 7<sup>th</sup> It increases the Venereal appetite - 8<sup>th</sup>  
 It induces a tendency to putrefaction in the Blood  
 9<sup>th</sup> In fevers, it gives the humors in the body a  
 centrifugal determination, as in Bubos, Glandu-  
 lular Swellings &c - 10<sup>th</sup> It increases the excretion  
 & secretion of Bile, &c<sup>th</sup> corrects the tendency to  
 putrefaction in the blood mentioned above. 11<sup>th</sup>  
 It favours the production of the menses, & shor-  
 tens the duration of their flowing - 12<sup>th</sup> It af-  
 fects the eyesight, producing Gutta serena, opthal-  
 mia &c - 13<sup>th</sup> By producing debility, it blunts,  
 renders dull, & weakens the operations of the mind  
 producing languor &c - but strengthens the ima-  
 gination. 14<sup>th</sup> It increases the laxity, & lessens the  
 density of the Solids. 15<sup>th</sup> It is less friendly to young  
 than to old people - hence the practice amongst the  
 ancients of changing a cold for a warm climate



7<sup>th</sup> an 1<sup>st</sup> Such causes as tend to decrease its morbid effects  
2<sup>nd</sup> Such as tend to increase its morbid effects  
Heat when uniform & dry is healthy. An air totally  
devoid of moisture is scarcely fit for respiration.

7. Different people according to circumstances  
differently acted on by heat

Winds abate the effects of heat

Diseases occurring in <sup>warm</sup> dry are less violent than  
those occurring in <sup>first</sup> hot weather -

The Morbid effects of heat are much lessened  
by habit & time - by motion promoting  
perspiration, by abstinence, eating vegetables only &  
drinking nothing but water

Heat applied to the whole or a part of the body acts  
differently, it is more injurious in the latter case



when they became old. By this means they prolonged their lives 10 or 12 Years. —

It weakens the sense of taste, it affects hearing. In the bowels it disposes to Cholera, Dysentery. The urine never indicates scarcely any change at the crisis of fevers in the W Indies. —

Relative effects of heat. When the system has been exposed to cold, it is then acted upon more forcibly by heat. Inflammatory fevers seldom fail to follow heat when preceded by cold. The body suffers less by passing from the extremes of heat to cold, than from cold to heat. Heat when long applied produces insensibility to cold as well as to itself. Warm winters are followed by unhealthy springs. Hence the propriety of the old saying — "that a green Christmas makes a fat grave yard". Weather becoming temperate after being very warm produces diseases by checking perspiration. Autumns succeeding very warm summers are often attended with bilious fevers. The fall of 1793 was preceded by a warm



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dry summer. No climate necessarily unhealthy; but they are made so by the intemperance & of the inhabitants - for it is ascertained that dress diet, drink, the Passions & have a great influence over the body. Uniform dry weather seldom induces disease, only when succeeded or preceded by moisture - Thus diseases are generated in one season & produced in the Next. —

Upon the whole I conclude that wet seasons are generally healthy, & that most diseases are induced by transition from cold to heat & vice versa - diet drink &c

Cold. This has been erroneously supposed to act as a Stimulant upon the System. Its effects are negative. It acts only by the abstraction of heat. That it is a sedative I infer  
 1<sup>st</sup> From the general debility which it produces  
 2<sup>nd</sup> From the Slowness of the pulse & weariness.  
 3<sup>rd</sup> From the operations of it being similar to those of other debilitating causes, such as V. Purging &c Is the pulse slow in Pleurisy - Y:



x q" H disposes old annual sores to bleed afresh



57

Fever 4<sup>th</sup>? So it is from depression. Is it raised  
by V.s? So it is by abstracting excess of Stimuli.  
Is it raised by Emetics? So it is by an abstrac-  
tion of the excess of Stimuli. Cold acts by inducing  
direct debility or debility for abstraction. Heat by  
inducing indirect debility or debility for action.  
Upon the application of cold, part of the Heat is abstracted  
hence the apparent tonic power of cold when our Co-  
dies have been debilitated by heat

Effects of Cold 1<sup>st</sup> Upon the Arterial System  
by inducing debility or increasing excitability, dispo-  
ses the system to all kinds of Fevers - 2<sup>d</sup> Upon the  
Nervous, producing a dulness of Sensation 3<sup>d</sup> Upon  
the muscular, producing languor, debility 4<sup>th</sup> It  
invigorates the appetite - hence the Germans are no-  
torious for their warm stables, in order that their  
Horses may eat the less - 5<sup>th</sup> It weakens the ve-  
neral appetite - 6<sup>th</sup> It considerably increases the  
discharge of urine - 7<sup>th</sup> It is unfavourable to size  
8<sup>th</sup> It operates with other causes in producing scur-  
vy - 10<sup>th</sup> It is unfavourable to vision 11<sup>th</sup> It ac-  
cer



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tain degree it produces paleness of the skin, in a greater redness, & in a still greater, a purple or black colour - 12<sup>th</sup> It acts powerfully in sleep - Hence most diseases attack us at that time - 13<sup>th</sup> It acts more powerfully upon old people than upon young; hence we hear of their being found dead in the cold, & with their children by their sides alive - Case of a woman who was found dead & her child alive & at the breast - Cold is most injurious when alternated with heat & combined with moisture. Moisture increases the sedative effects of cold by conveying off a greater proportion of the heat of the body.

Weather uniformly cold is healthy. In Canada, diseases of all kinds are locked up, & they are only let out when heat succeeds or precedes cold. Heat succeeding cold produces diseases - The spring of Russia produces fevers of a peculiar nature, & our falls also. Thus the diseases of cold climates are generated in one season & produced in another & vice versa. Heat does not produce diseases after the long application of cold; because the vessels become torpid & are not able to react.



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Cold produces diseases in Northern climates when warm dresses, houses &c are not used. Sudden transitions from heat to cold, does not necessarily produce disease, or vice versa. more care & attention in accommodating ourselves to the weather by dress, diet drink &c. w<sup>d</sup> prevent diseases. —

Middle latitudes not necessarily unhealthy, tho' they require more care & attention to bed clothes & dress. The Chinese change their dress 2 or 3 times a day, in order to accommodate themselves to the weather.

Cold feet induces Catarrh. Nine tenths of all the diseases of the system are received into it by the avenues of the feet & mouth. Cold acts more powerfully on the system in the sleeping than in the waking state, hence nine tenths of the diseases are taken in at the night. Cold acts more powerfully when the Stomach is empty, more powerfully on drunkards than on sober persons; because the first are generally very much debilitated when not under the effects of some Stimuli. Cold, as I have said, is the <sup>exciting</sup> predisposing cause of all diseases. More suffer from



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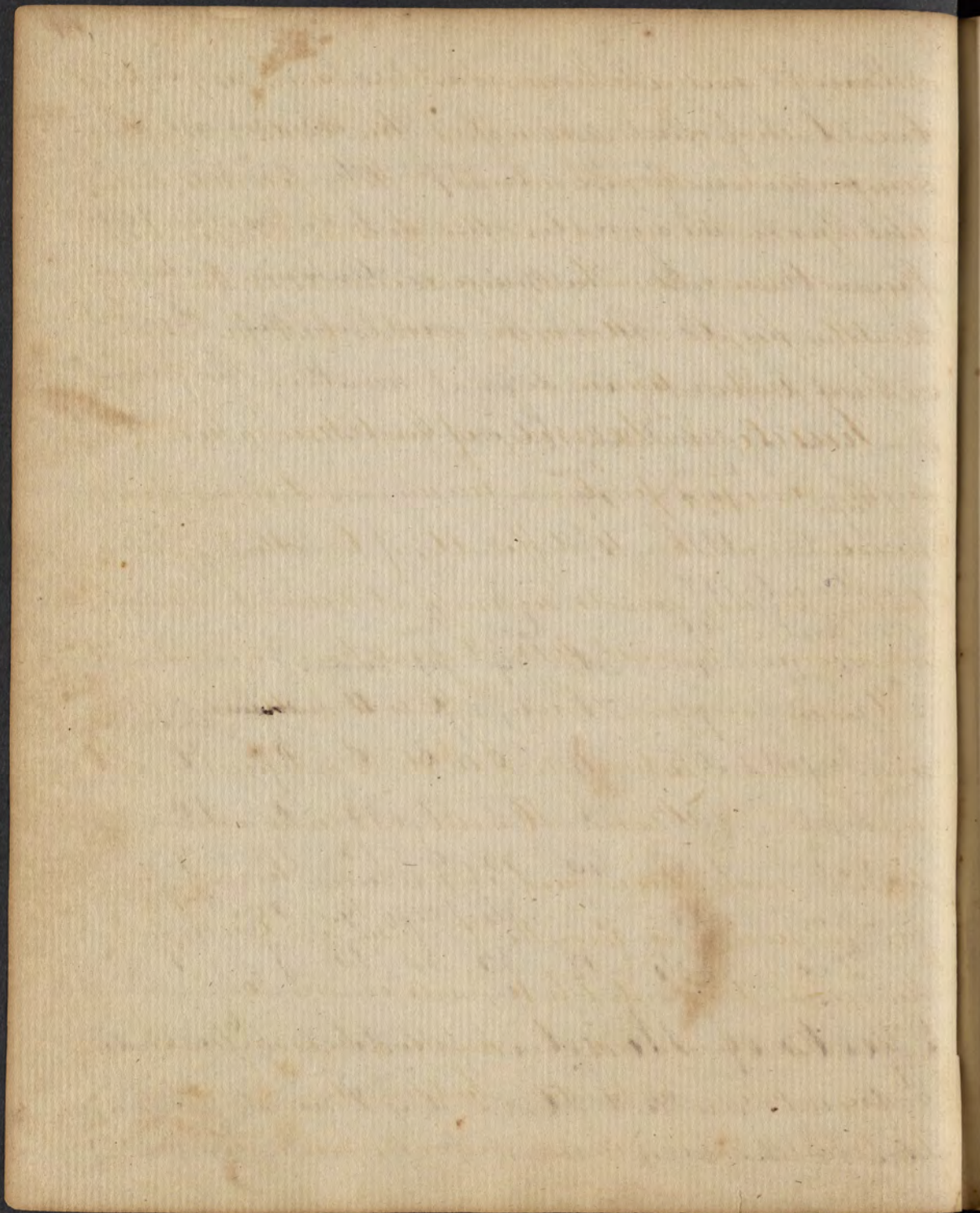
It than for any other cause in nature; not only of man but of other animals. The diseases are also more numerous for this than for other causes. In short there is not a greater enemy to the health & life of man than cold. The Spring in Autumn between the Equinox of 35 & 40 are the most healthy. Heat & cold act differently in different months. The follow<sup>g</sup> is a table of mortality for one year. —

	Whole	Boys	Girls	Men	Women	Widows
Jan <sup>r</sup>	142	57				
Feb <sup>r</sup>	111	46				
March	112					
April	108					
May	107	31	29	21	Women	
June	77	21	27	8	11	Widows
August	89	24	20	18	8	5 9
Sept <sup>r</sup>	130	36	35	12	34	3 10
Oct <sup>r</sup>	110	43	35	8	13	2 9
Nov <sup>r</sup>	216	42	34	101	19	5 15
Dec <sup>r</sup>	134	38	35	30	15	7 9

### Effects of Wind in producing Disease.

Winds are hot & cold, dry & moist. They are dry for the west & moist for the east. The body is





immersed within them. Sudden changes ~~for~~ heat to cold more certainly affect the body when accompanied with high winds. They produce certain changes in the mind, as the Torroco & Harriel winds they act more powerfully upon invalids than upon healthy people. Not only winds, but the absence of them produce disease.

Rarity & Density of the Atmosphere. Air highly rarefied produces numerous diseases, great muscular weakness, difficulty of breathing, quick pulse, profuse sweats sickness at stomach, sleepiness an aversion to food & great pain according to Mour. Sansone. These effects are attributed to a more rapid combustion of Azote or a deficiency of Oxygen. — Baron Humboldt who ascended the highest mountain said it produced hemorrhage ~~for~~ the nose, eyes, mouth &c. By his Eudiometer the oxygen descended to 16 parts in the 100. —

Air too dense is very hurtful to Asthmatical or consumptive patients. Sudden changes ~~for~~ rarity to density & vice versa are very prejudicial. —





We have now gone thro' the sensible qualities of the Atmosphere, w<sup>ch</sup> are heat, cold, moisture, dryness, rarity density &c. Pneumonia, Angina, Pleurisy & Catarrhs are among the diseases most frequently induced by the sensible qualities of the air.

Impregnations of the Air. We come now to consider the impurity of the air as the remote cause of disease. —

Marsh Effluvia, or as Dr. Mitchell has called them Foetid Miasmatic exhalations. For the production of these, 3 things are necessary - viz heat, moisture & putrifying animal or vegetable matter. The Thermometer sh<sup>d</sup> stand at 80. When the ground is covered with water no exhalations can take place; but when there is not a sufficient quantity of rain or heat either to overflow, or dry up the surface of the ground, then the exhalations are produced. The summer sh<sup>d</sup> be moderately moist to produce miasmata. Heavy rains have sometimes produced miasmata by washing off the green covering that is some-



x producing Nausea Vomiting &c

times found upon stagnant waters & w<sup>h</sup> prevented the sun fr<sup>m</sup> acting upon them without w<sup>h</sup> the miasmata could not be formed. These effluvia arise partly fr<sup>m</sup> Animals & partly fr<sup>m</sup> vegetables but more generally fr<sup>m</sup> the latter. The follow<sup>g</sup> vegetable matters produce these Marsh Effluvia viz Putrid Cabbage, Potatoes, Turnips, Peppermint, onions, anniseed, Carraway seed confined in the hold of a ship, Coffee, Cotton, hemp, flax, straw, old books & old paper money, the timber of an old house, log houses the second year after they are built, in consequence of the putrefaction of the bark, green wood confined in cellars, green timber of a ship. Also air stagnating in the hold of a ship & cellars, & stagnated waters when agitated produce Miasmata. Fevers are not so often produced by Animal as by vegetable effluvia. There are however a few w<sup>h</sup> are produced by the former. —

Marsh Miasmata act first upon the Stomach & 2<sup>d</sup> Upon the intestines, producing Cholera Dysentery & 3<sup>d</sup> Upon the Liver, increasing the secretion of



a producing Apoplexy, Mania  
b producing inflammat<sup>n</sup>

c Erysipelas Leprosy &c The Colour of the African  
has been supposed to arise from the same cause

bile, imparting to it viscidit<sup>y</sup> & acrimony. 4<sup>th</sup>  
 Upon the blood vessels, producing 1<sup>st</sup> Inflammatory fever  
 intermittent Remittent, Jail, Typhus or low chronic  
 fever, & Febricula or inward fever, hemorrhages &c  
 5<sup>th</sup> On the Brain<sup>a</sup> Kidneys, & Spleen, more particularly  
 this last producing an inflammat<sup>ion</sup> or induration  
 in it called Ague cake. 6<sup>th</sup> Upon the nervous sys-  
 tem - 7<sup>th</sup> On the Muscles producing convulsions &c  
 8<sup>th</sup> On the Lymphatic system producing glandu-  
 lar swellings &c 9<sup>th</sup> on the eyes producing Opthal-  
 mia & 10<sup>th</sup> upon the skin producing Carbuncles  
 eruptions &c. - The Human effluvia are of two  
 kinds - from an excreted & secreted matter - Mi-  
 asmata may exist in the body 20 or 30 days  
 without producing disease sometimes even 6 Mos<sup>es</sup>.  
 Persons long accustomed to these Miasmata are  
 but little affected with them - Hence the natives  
 of sickly countries suffer but little or perhaps not  
 at all from the action of the same Miasmata &c  
 in new comers produce formidable diseases & death.  
 Miasmata frequently do nothing more than give



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a predisposition to disease in one summer & in the next summer acting on this predisposition diseases are produced. The diseases produced by marsh miasmata are not contagious, they are incapable of generating themselves. These Miasmata have been carried by the winds 9 miles. Strange as it may appear, it is nevertheless a fact that the existence of these Miasma have been called in question, because the Eudiometer does not discover that air impregnated with them, is less pure than air generally is. As well might we deny the existence of a Spirit because we do not see it.

There is a species of Miasma exhaled from living animals called by Dr Mitchell Idiomiasmatic exhalation. The jail fever is produced by it. Plague is sometimes produced by it, & in some instances the Scurvy. Dysentery not unfrequently proceeds from it. They are more injurious to health in the morn<sup>g</sup> & evening than in the middle of the day. They are a source always of disease, & are assisted by the following circumstances. Un-



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cleanliness, confinement in large crowds, low rapid vegetable diet, scanty & putrified animal diet, mixing of strangers together, great prostration and grief of mind; all these predispose to disease.

Cold weather is favourable to the spreading of contagious diseases in consequence of the houses being shut up very close in order to keep the cold out

It is a disease of winter & of Cold Countries; it seldom requires or admits of W. Woollen & other clothes retain & spread contagion, wood also. Walls of white washed will not retain the effluvia of Typhus fever - Effluvia act more powerfully upon the system when in a debilitated state. Pregnant women often escape the Ty. Fever in consequence of the stimulus of distention for pregnancy, also persons affected with running sores escape it. Persons are capable of affecting themselves with miasmata. Persons highly charged with miasmata may affect others without being affected themselves

Human Effluvia affect 1<sup>o</sup> The blood vessels 2<sup>o</sup> The brain with delirium 3<sup>o</sup> The glands 4<sup>o</sup> Pro-

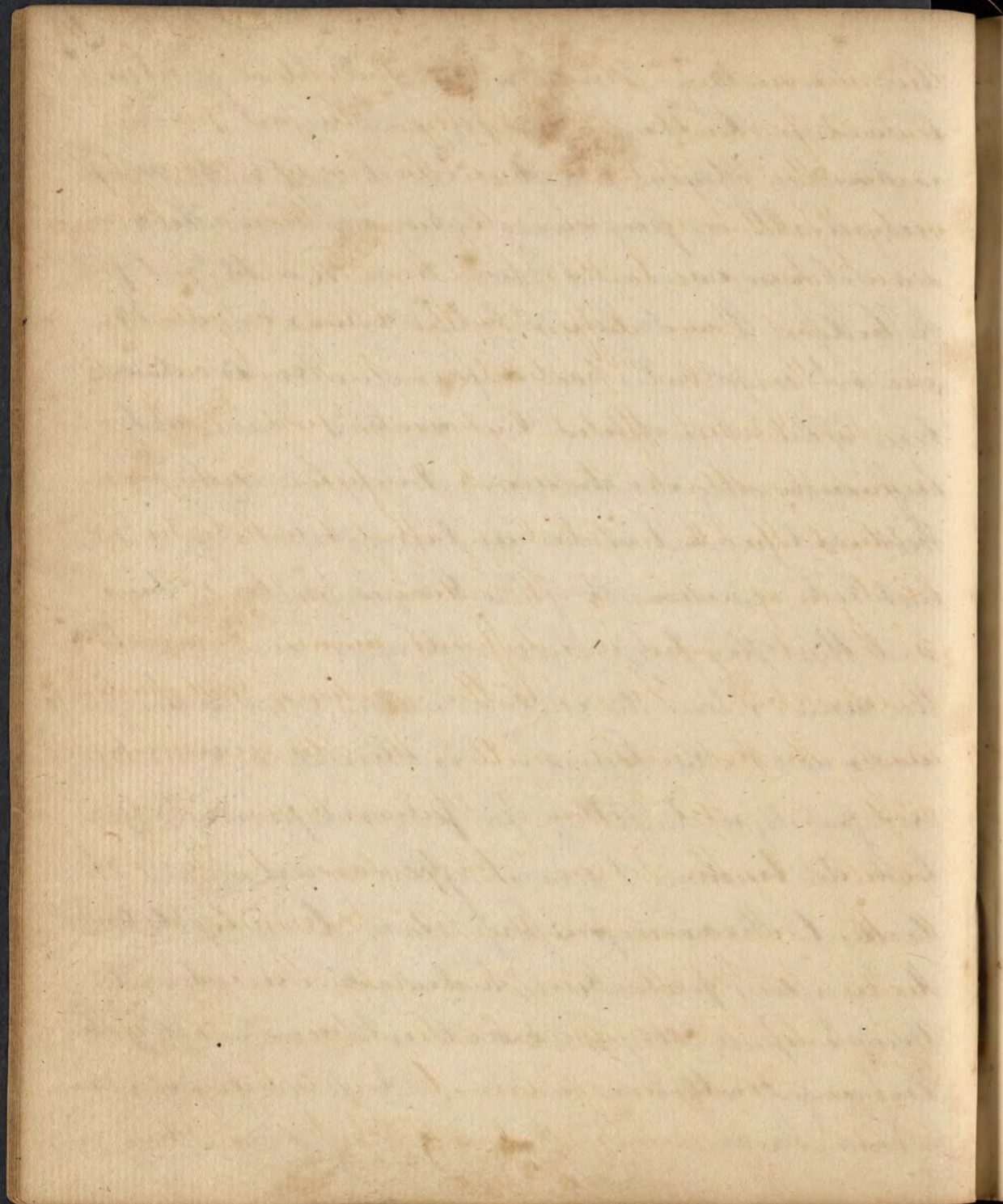


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Acute Dysentery 5 Intermittent & Malignant fevers  
6 Scurvy & Catarrh & Lastly influenza

Human effluvia are often combined with marsh  
miasmata in producing bilious fevers. There  
are seldom conveyed more than 10 or 12 feet from  
the body. It is difficult to tell what it is in the  
air w<sup>ch</sup> constitutes an inflammatory constitu-  
tion of the atmosphere. But certain I am such  
inflammatory constitution does often exist. I once  
thought it depended on the air being super oxygenated,  
but late experiments of the Chemists have pro-  
ved that the proportion of Oxygen in the air is  
the same when the inflammatory constitution pre-  
vails as at other times. No climate or Country  
necessarily unhealthy, for fevers depending upon  
both the human & marsh effluvia are owing en-  
tirely to the carelessness of man. Were we to take  
the necessary precautions to drain our meadows of  
their impure stagnant waters, to remove all pu-  
trifying matter around us, & keep our persons &c  
clean, these mortal distempers w<sup>d</sup> cease to affect.





the human race. They are like the venison sent as a reward for our Laramie & Holly. The Jail Fever is rare in the U. States, because there is not so much poverty & filth among our citizens, for these are the causes which give rise to this fever in other places.

The Jail Fever differs from the bilious or Yellow Fever in the follow<sup>g</sup> particulars - 1<sup>st</sup> It comes on in cold weather & is not affected by rain or frost - 2<sup>d</sup> It most frequently attacks the weak & infirm - 3<sup>d</sup> The pulse is Typhoid - the blood vessels being affected with but a feeble degree of action. 4<sup>th</sup> It continues for 20 or 30 days - 5<sup>th</sup> It is propagated in a different manner by excretion & perspiration. From all the excretions, but particularly the perspirable matter, the *Ides miasmata* proceed. - The Yellow or Bilious Fever is distinguished by the follow<sup>g</sup> particulars - 1<sup>st</sup> By its attacking in warm weather - 2<sup>d</sup> By coming on suddenly - 3<sup>d</sup> By attacking principally the young & robust - 4<sup>th</sup> By remissions & intermissions - 5<sup>th</sup> By the increased secretion of bile - 6<sup>th</sup> By its being of a shorter duration as 3, 5, or 7 days, but it now & then runs



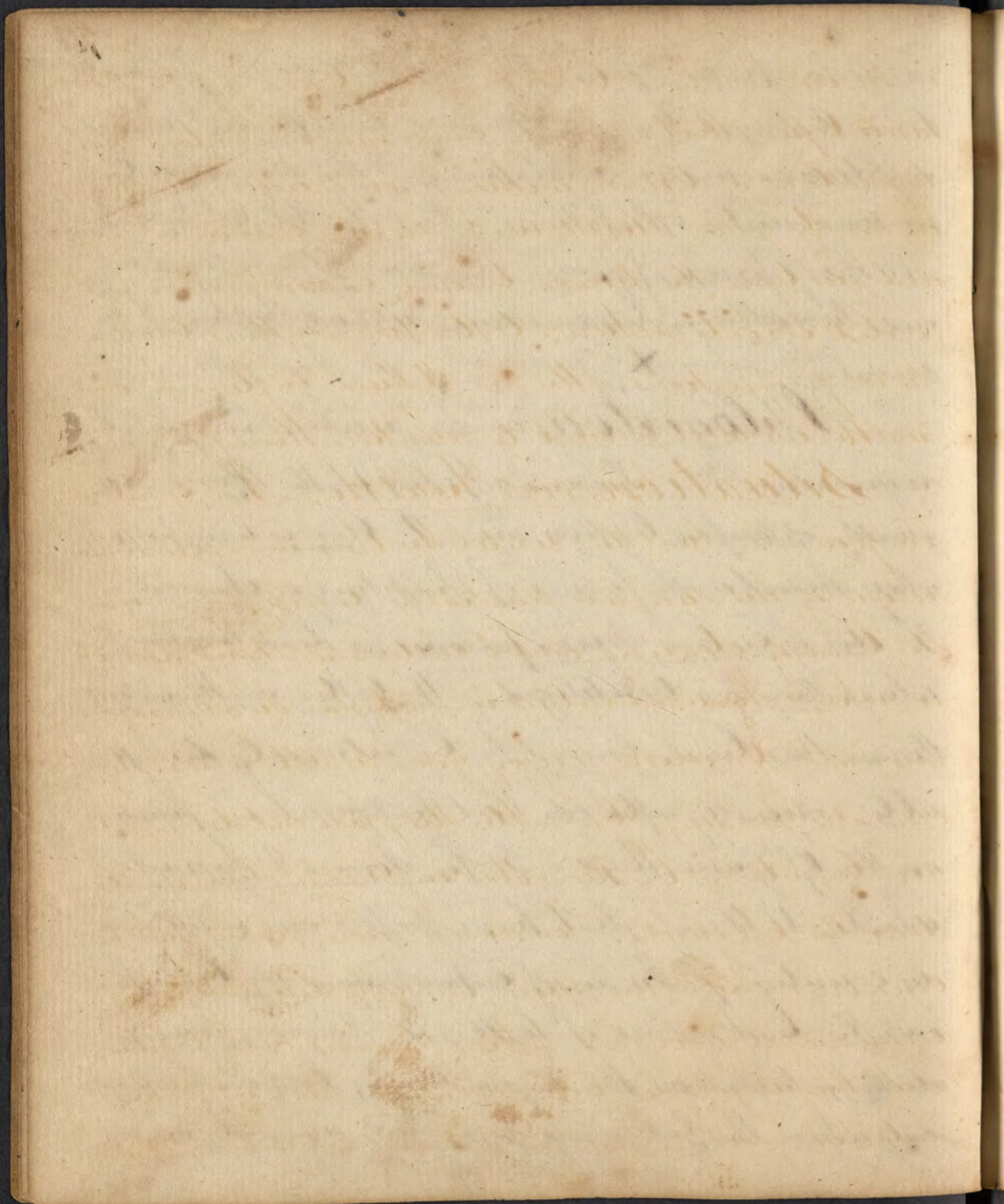
x The Matter w<sup>h</sup> produce Influenza spreads  
with the intercourse of the Citizens - thus I infer  
from the sudden increase of Patients in this disease -  
I infer that Influenza does not spread by Contagion  
because it has never been confined to any one spot  
nor could any place be traced as the place of  
its origin



on in a chronic form for 20 to 25 days - 7<sup>th</sup> By its  
 being destroyed by cold & heavy rains. The human  
 or miasmatic exhalations, & the marsh or Co-  
 no miasmatic exhalations affect the blood vessels in  
 all the 7 forms of fever viz The Bilious, Mild bili-  
 ous, Remitting, Intermitting, Typhus, Typhoid & Fe-  
 bricula. X

Phlogiston, or air rendered impure by  
 respiration 4<sup>th</sup> Persons affected with Miasis are  
 greatly oppressed by this air - 2<sup>nd</sup> Air is unwholesome  
 when mixed with fumes of Sulphur or charcoal -  
 3<sup>rd</sup> Air of certain Manufactories as Lead, Arsenic &c  
 when they are volatilized. 4<sup>th</sup> After earthquakes  
 the air has been observed to be extremely disagree-  
 able, especially after one that happened in Jamaica  
 on the 17<sup>th</sup> June 1692. 5<sup>th</sup> The Sirocco & Samiel  
 winds. 6<sup>th</sup> Winds that have passed over a hot san-  
 dy country. 7<sup>th</sup> The air of certain mines. If birds fly  
 over the lead mines of Scotland they are imme-  
 diately killed on the days of work; but on a sun-  
 day when the labourers rest, they may fly over





with impunity. Hence we may learn an important Lesson, that a remote cause can be seldom able to produce a disease without an exciting cause, & in the Ty Fever, I have never seen a case in which I could not trace the disease to some cause or other which excited it into action. After having thus treated of the impregnations of the air & their influence over health we will proceed to mention the effects of

### Situation over health. New countries

are generally healthy until the trees which exclude the action of the sun are partially removed. From the time of clearing until cultivation takes place it is sickly. The wood cutters in the Cedar Swamps of Delaware & Carolina enjoy good health when the trees are standing. But after they are cut down, & begin to putrify by the solar influence, health abandons the labourers. Towns are more sickly than the country. The atmosphere, impure exhalations from innumerable sources, & the increased heat together with the vegetables being forced by manure & thus putrifying sooner are the causes of cities being more

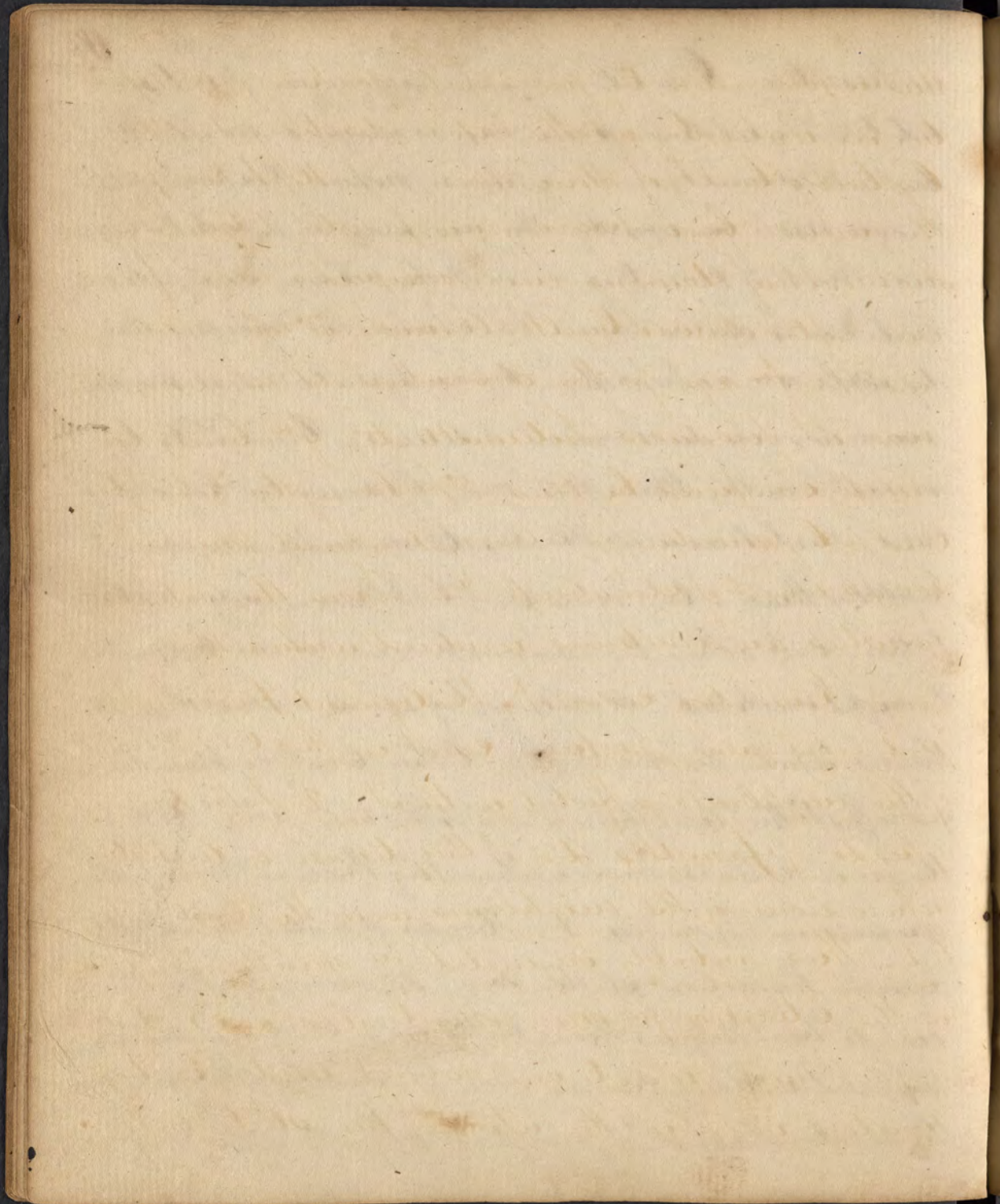


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unhealthy. Country people are more predisposed to Dysentery from their rapid vegetable diet. Bilious Fever, Typhus Meticor - Consumption &c are more frequently the products of vitiated city air than of country air. It has been computed that 3 or 4 die in towns for one in the country. Sandy soils are unhealthy. Vicinity to towns, or marshy grounds, one great source of disease. Vicinity to deserts & ponds - these last may be remedied by having trees planted around them. A mountainous more healthy than a low situation, but there is one exception to this, viz when the miasmata arise from the bottom & neighbourhood - A collision of air is unhealthy, as the air upon the sea shore. Other local circumstances affect the healthiness of a situation - viz Residence in Cellars more unhealthy than in rooms above ground in Hospitals &c. Houses situated so as not to receive the action of the sun on every part, are not so healthy as those built in a contrary manner. Dwelling houses often a source of disease from the materials of w<sup>h</sup> they are made, as green wood -





This is prevented by previously soaking the timber in water, by w<sup>h</sup> the sap is discharged - Also by being built of Stone when recently taken from the ground - By vapours of new plaister & paint - Hence the wealthy Romans, never occupied a house for one year after it was built. A house is rendered unhealthy from age for the wood when old exhales a vapour w<sup>h</sup> produces Intermittents - from being too much confined by trees, from being too hot or too cold - by moisture of Cellars; by small smoky rooms, want of cleanliness &c - From the water used families are sometimes rendered unhealthy. -

I knew two cases of Malignant Fever w<sup>h</sup> proved fatal near Zachary's Court in this City, & none of the neighbours affected with it - 2<sup>d</sup> I also knew heads of Families die of this disease in Arch Street when none of the neighbours were the least affected. These probably originated from something impure in the Cellars, or from some other local cause. 3<sup>d</sup> Lastly a fact more proper to our subject related by Van Swieten viz That the whole of the Students toge-







gether with the Master of a certain University, were diseased, when none of the neighbours were the least affected. This probably arose from some exhalations from privies & Cellars, or rotten vegetables near the university, or some other local cause. —

Change of Situation over Health.

1<sup>st</sup> Persons changing a cold for a warm climate are frequently affected with fevers - 2<sup>d</sup> Persons leaving a sickly neighbourhood & coming to a city are affected in the same manner - the miasmata in this case being previously received into the system, are excited into action by the many exciting causes in a city, & the system thereby becomes diseased 3<sup>d</sup> Old people leaving a cold & entering a warm climate often become more healthy, whilst the same change of climate in young people w<sup>d</sup> produce inflammatory complaints. 4<sup>th</sup> Removals from marshy to airy dry situations often contribute to health; except in old people who often suffer by this change, since it deprives them of a customary stimulus. viz the miasmata w<sup>ch</sup> on a former occasion were said to



the first of the month of the year  
the second of the month of the year  
the third of the month of the year  
the fourth of the month of the year  
the fifth of the month of the year  
the sixth of the month of the year  
the seventh of the month of the year  
the eighth of the month of the year  
the ninth of the month of the year  
the tenth of the month of the year  
the eleventh of the month of the year  
the twelfth of the month of the year  
the thirteenth of the month of the year  
the fourteenth of the month of the year  
the fifteenth of the month of the year  
the sixteenth of the month of the year  
the seventeenth of the month of the year  
the eighteenth of the month of the year  
the nineteenth of the month of the year  
the twentieth of the month of the year  
the twenty-first of the month of the year  
the twenty-second of the month of the year  
the twenty-third of the month of the year  
the twenty-fourth of the month of the year  
the twenty-fifth of the month of the year  
the twenty-sixth of the month of the year  
the twenty-seventh of the month of the year  
the twenty-eighth of the month of the year  
the twenty-ninth of the month of the year  
the thirtieth of the month of the year  
the thirty-first of the month of the year



be, in part, the support of old age, but the destruction of youth & the middle aged. 5<sup>th</sup> Those who have made long sea voyages are frequently affected with Catarrh on a near approach to land, from a mixture of the land & sea airs (case of a Sea Captain with whom Dr. Rush crossed the Atlantic) 6<sup>th</sup> I have been at much trouble in trying to find out whether Thunder & Lightning independant of the charge of the air, had any influence over the system in producing disease; but have not been able to collect any thing certain on this point. I knew a lady who could tell the approach of a thunder storm by a giddiness & headache w<sup>th</sup> she always experienced some time before, & w<sup>th</sup> continued until the storm was over. Some persons appear to be born with a fear of Thunder. A Lady in this City some years ago, in consequence of her dread of Thunder, w<sup>th</sup> during the continuance of a thunder storm shut herself up in a dark room & drank an immense quantity of Spirits without the least intoxicated, at other times she did not



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discover the least attachment for them. Excitem<sup>t</sup> & excitability were either so suffocated that they could not act, or were suspended in this case.

Leeches appear to be sensible of the change of weather by their motions. Mr Cowper informed me that he could always foretel the approach of thunder by certain motions made by the leeches w<sup>h</sup> he kept in his house - "Sound appears to affect some people. A Lady in this City has always sweats chills, tremblings & the appearance of great terror on hearing the noise produced by a carriage drawn over the pavements of the streets. Deafness has been induced in two cases to my knowledge, in consequence of the firing of Cannons & even death. Birds have dropt dead from the firing of Cannon upon the deck of a ship. We will now consider the effects of the Heavenly Bodies upon health, & first

Of the Sun. - We have already considered in what manner the Heat of this Body, by warming the air operates on the system - We will now con-



x In cold countries the reflexion of the sun upon  
the snow proves very hurtful to the eyes. —

under its light absence &c. An excess of solar light sometimes produces blindness & inflammation, while its absence produces temporary blindness from a want of Stimuli both w<sup>h</sup> are called Nyctalopia whether it depends upon an abundance or deficiency of light. Even the momentary absence of the sun has produced alarming symptoms in the Y<sup>ell</sup> fever. Darkness reduces the force & for a time the frequency of the pulse. Most diseases attack at night & death most frequently occurs at that time - It has been asserted that  $\frac{3}{4}$  of mankind die in the night - May not this be owing to the absence of the Sun? \* Secondly

Of the Moon. - The influence of the Moon is felt by all animated nature, even the tides are under its influence - vegetation is measurably under it. Death occurs more frequently at the full & change of the moon than at any other time of it. The Paroxysms of many diseases appear to be influenced by the moon - it affects fevers. Dr Mosely relates the case of a Brit.

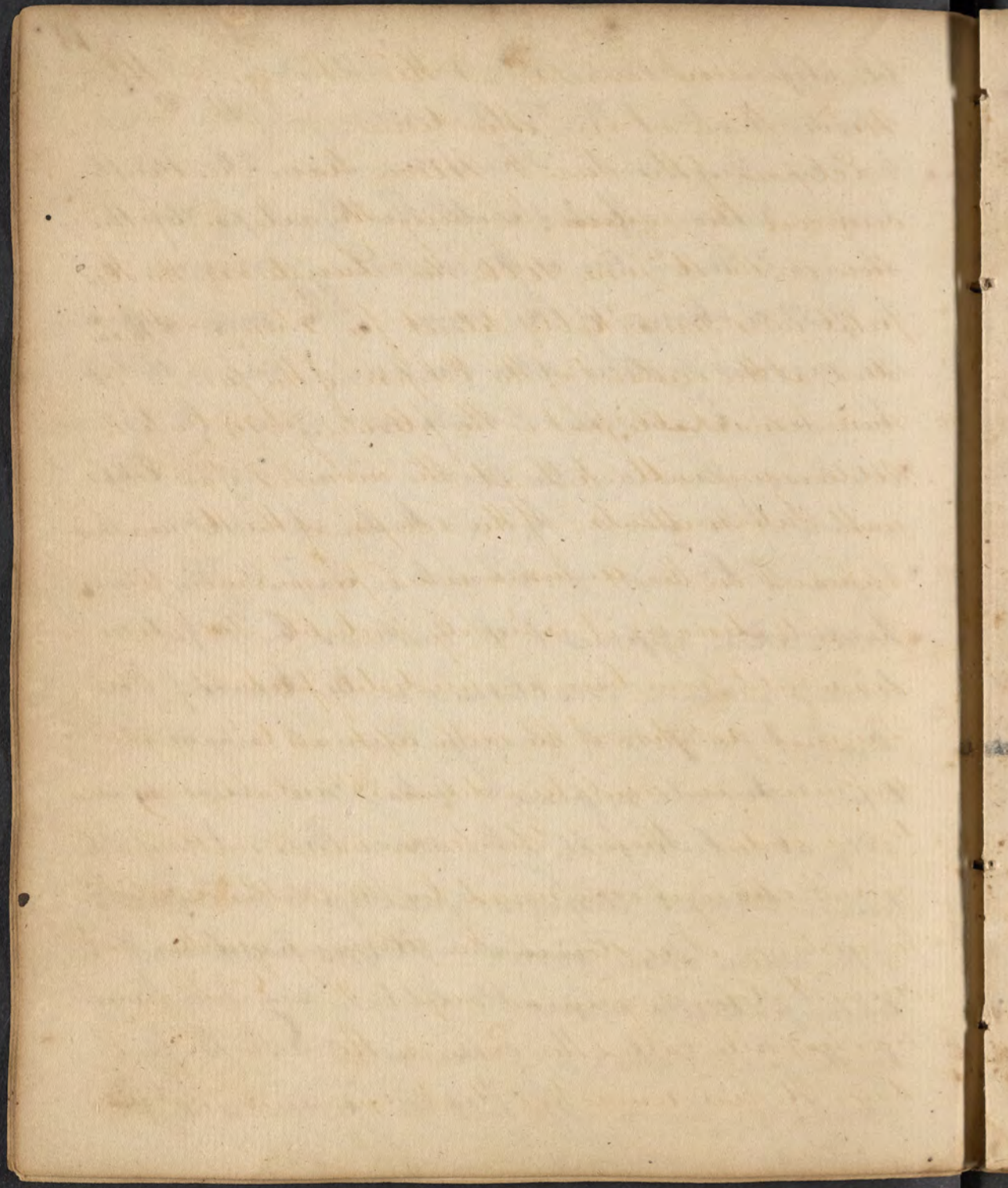


x perhaps from the operation of the Medicine keep-  
ing up excitement —————

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ish Officer who was regularly attacked with Hemoptysis about the full or change of the moon & at no other time. I have seen it in 2 cases. I know a person affected with the Gout in this place always to have the inflammatory paroxysm, on the full or change of the moon. The moon affects the nervous system, also madmen, hence the Lunacy. Epilepsies & Asthma's appear to be under the influence of the moon. It affects the tranquility of the mind. Hence a lady observed her husband to be more petulant on the full of the moon. Parturition appears to be hastened by the full. Worms are more troublesome in the bowels of children at the full & change than at any other time. Suicide appears to take place more generally about the full of the moon than at any other time. Chronic diseases yield less to the influence of the moon than acute. Hypochondriac & Epileptic patients appear to be very much influenced by the full & change of the moon. Dr Haller speaks of a person who felt the calculus in the



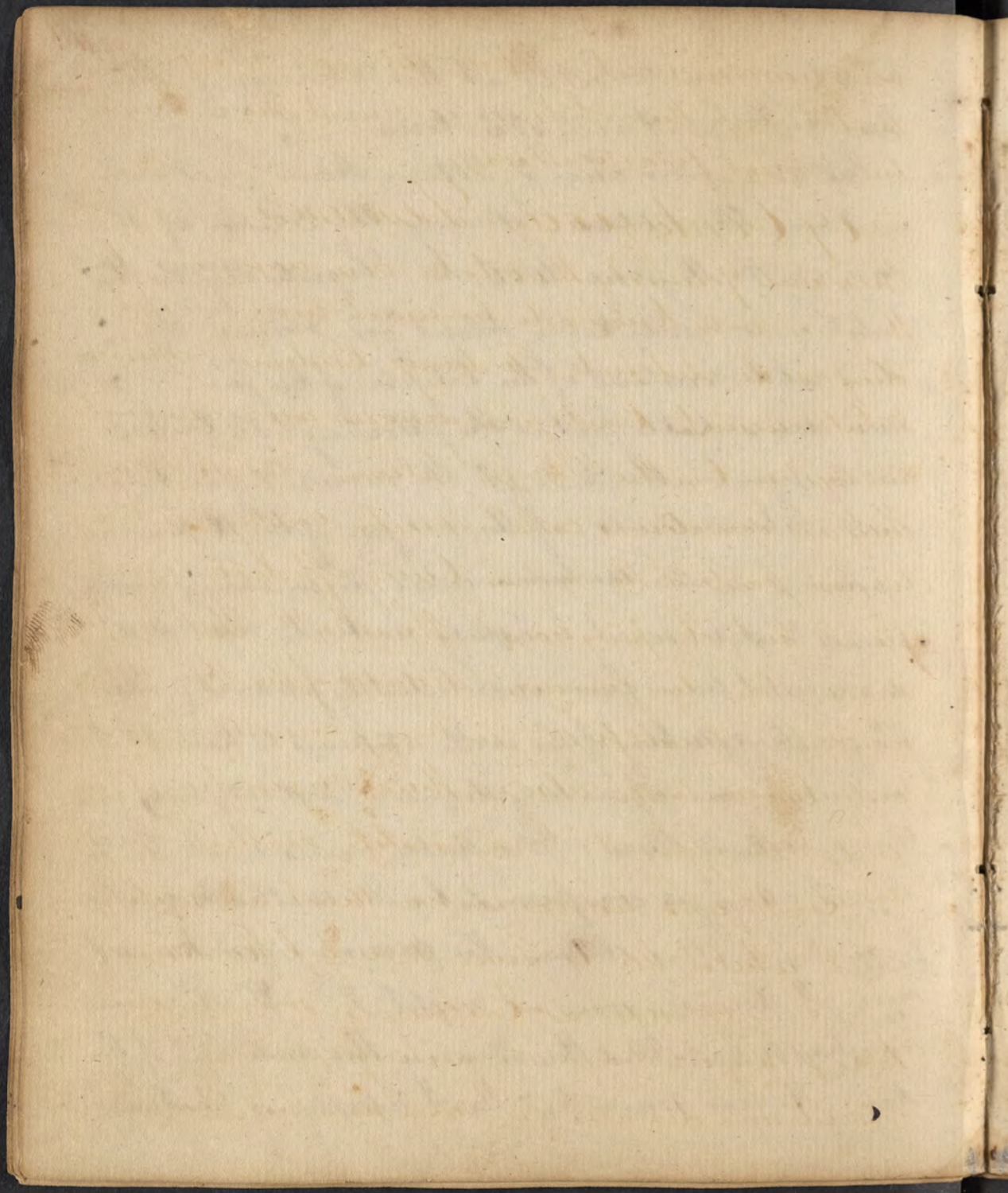


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bladder more sensibly at the change of the Moon than at any other time.

Eclipses of the Sun & Moon have great influence over the system. During the eclipse of the Sun on the 16<sup>th</sup> June 1806, the Lunatics in the Hospital were remarkably silent for 3 hours. Bessa died at the instant of the Eclipse of the Sun. A more remarkable fact is the following - 24 British Soldiers were attacked at the moment of an Eclipse with Intermittents. If the eclipse of the 16<sup>th</sup> June had appeared in the Autumn when persons were predisposed to disease, it is highly probable that diseases would have been immediately produced. The Diurnal rotation of the earth appears to have great influence in regulating diseases, & probably may sometimes induce them. The pulse varies with the different changes occasioned by the earth's revolution - for instance it is slow in the morning quicker at noon & slower again at night &c. Dr Darwin has happily called the evening the autumn of the day - He has remarked that apoplexies & palsies





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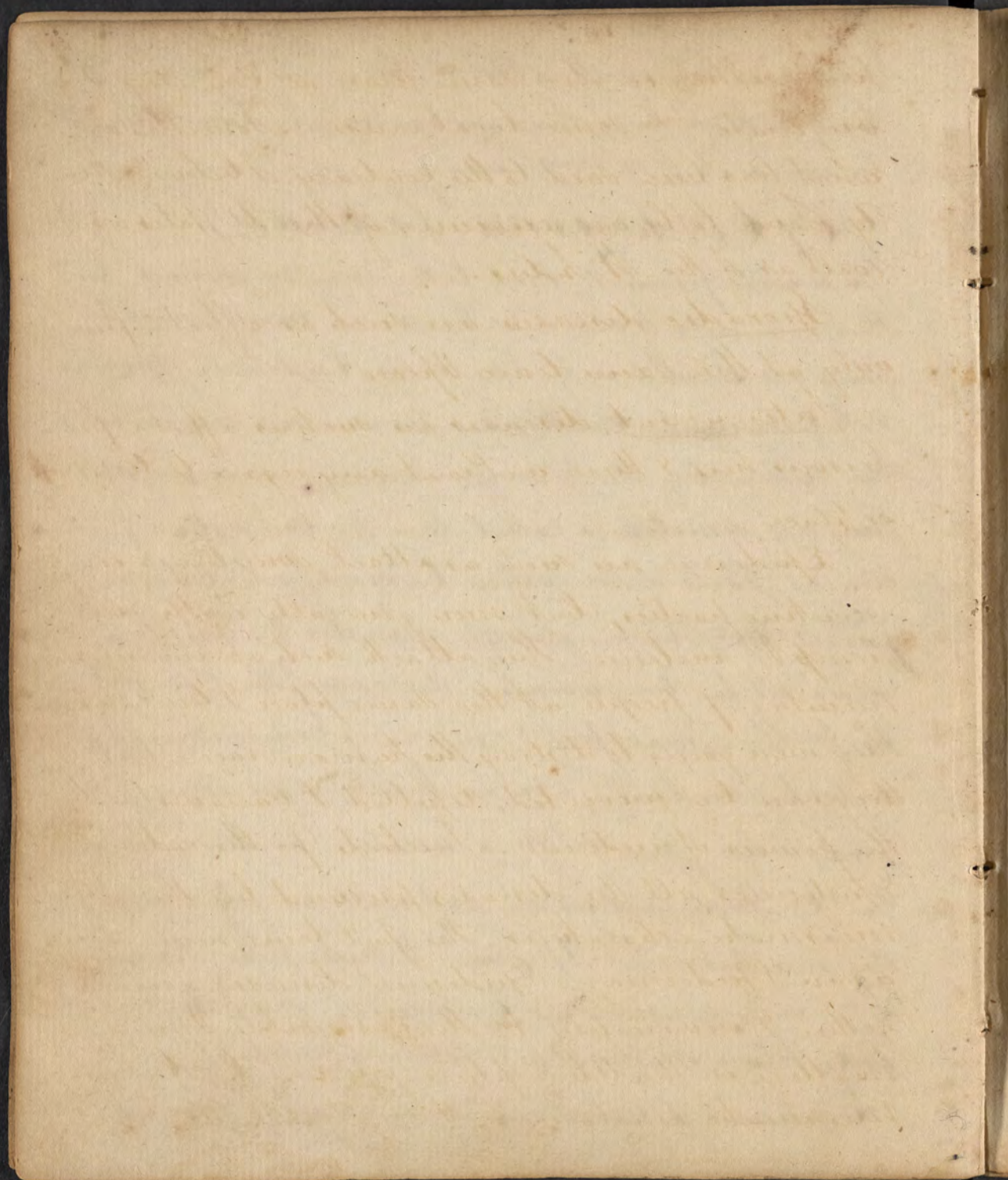
are more frequent at the equinoxes. It is important to keep these changes in mind, since they will be of great practical use.

## Of Contagious Diseases

These were formerly thought to be very numerous, but they are now known to be much more limited. They are divided into Epidemic, Endemic, Sporadic & Intercurrent. Contagious diseases are received into the system by the Lungs, Saliva, Nerves & Skin. They are sometimes called Specific Contagious for particular parts of the system being affected only, as the Small pox, Hooping cough, Measles &c. The Lues Venerea, Syphilis, Ringworms, & diseases of the skin differ from the Smallpox &c in being communicated only by contact - also in their originating from a fixed, & the Pox &c from a volatile matter. Specific contagious diseases act without an exciting cause whilst the Ty. Fever & such like diseases which I only consider as Endemics scarcely ever take place without an exciting cause.

Endemic diseases are such as affect many peo-





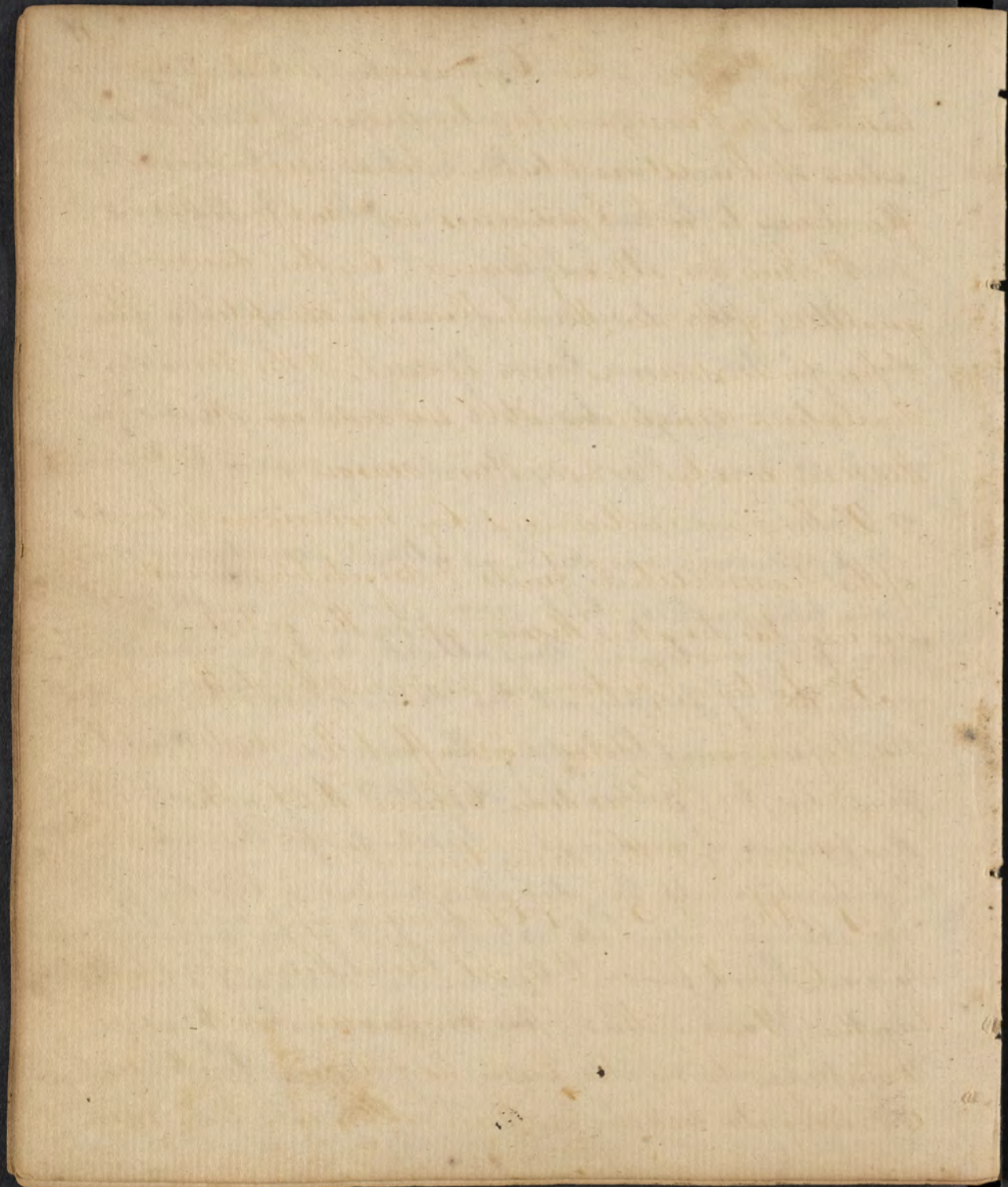
ple together in the same place or Country, & originate ~~for~~ some local cause. Notwithstanding what has been said to the contrary, I believe the Y. Fever to be an endemic of the U States as well as of the W. Indies. —

Sporadic diseases are such as affect a few only at the same time & place. —

Intercurrent diseases are such as affect a few persons here & there without any regard to time or place. —

Epidemic are such as attack sometimes in scouting parties, but more generally with great pomp & violence. They attack such an immense number of people at the same place & time, as if they were going to destroy the human race — but they can be prevented, repelled & vanquished by the powers of medicine. I exclude ~~for~~ the order of Epidemics, all the diseases produced by the Miasmatic exhalations. The jail fever never spreads as an Epidemic. — Epidemic diseases arise altogether & invariably ~~for~~ the insensible & foreign matters in the atmosphere produced by Coine Miasmatic exhalations — & are Small pox, Influenza





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Cynanche &c. — The Cynanche Maligna Scarlatina & Influenza may be properly called diseases of the Atmosphere. I will now deliver a few laws to w<sup>h</sup> Epidemics are subjected. —

1<sup>st</sup> They are all influenced by the sensible qualities of the air, the Influenza excepted. The Sprox for instance is more violent, & the Measles & Scarlatina Anginosa still more so in summer, than in winter or any other season.

2<sup>d</sup> They are influenced by provisions & drinks of the season — while fruits & vegetables for instance are used, the disease is thrown upon the intestines. —

3<sup>d</sup> No two Epidemics produced by different causes & of unequal force can affect the system at the same time. I w<sup>d</sup> as soon believe that a horse could trot & pace at the same time. —

4<sup>th</sup> When 2-3 or 4 Epidemics appear at the same time & place, they all blend their symptoms together & one of them predominates over the rest & appears to make them pay homage to it by wearing its livery, for there appears to be a mon-



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arch in diseases. Therefore Gent: in all of prescriptions take care to have an eye to the reigning Epidemic. Hence also we see the reason why broken legs, or any other external cause produce Malignant fever, when the system is previously disposed to it. A young man left this City in time of the Y. Fever to avoid it, & on his way to Germantown was thrown from his horse & had his leg broken - He was very soon seized with a Black vomit & in 5 days died

5<sup>th</sup> The more powerful & Reigning Epidemics, not only exact homage from the weaker, but chase them away. Dr Sydenham tells us that the Plague in London in 1665 drove away all other diseases from the City. -

6<sup>th</sup> The Tyranny of great Epidemics is lessened before their departure - hence the P. Pox drove the Plague from Constantinople, & the Measles chased away the small pox from this City. The first appearance of an Epidemic may be compared to a savage that attacks & destroys men women and children, but when retreating, to a civilized corps



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of men, who spare the blood of the innocent. It is in this stage only that other diseases can take place.

7<sup>th</sup> They appear in a Variety of forms & characters - 1<sup>st</sup> Arise the Malign<sup>t</sup> & Eitious, remitting inflammatory intermitting fevers &c in the 3 different forms of S<sup>p</sup>ox - viz that with, & without Pustules & the Confluent - 2<sup>d</sup> They appear in different forms in different years, & with different prognosis under different circumstances. 3<sup>d</sup> The same causes sometimes produce diseases of different forms & appearances - but still disease is an unit.

8<sup>th</sup> Epidemics vary with respect to their violence in different seasons & persons, & even in different days.

9<sup>th</sup> Some Epidemics require exciting causes, whilst others such as the S. Pox &c do not. -

10<sup>th</sup> They come on sometimes with great force & violence & suddenly vanish in consequence of frosts & great rains washing away the cause that produced them. -

11<sup>th</sup> They differ in different parts of the same



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Country - In one place it will appear perhaps in the form of Y. Fever, in another of Remitting fever, or common Bilious Autumnal Fever. -

In a third part of the country it will probably assume the shape of a Bilious Colic or Dysentery. The same Epidemics sometimes affects different people of the same City <sup>for</sup> a difference of Predisposition. Thus in persons of the Sanguineous Temper<sup>e</sup> for instance it will appear a violent fever. In persons of the Alimentary Temperam<sup>t</sup> it will fall with all its force on the bowels &c

12<sup>th</sup> They are often limited to small bounds

13<sup>th</sup> They affect people of one nation or colour often, whilst others of a different colour & Strangers escape. In 1793 the French men, and Negroes escaped the Fever of this city. -

14<sup>th</sup> They sometimes affect persons of a particular age. Moses speaks of a Plague that carried off many children only. -

15<sup>th</sup> They sometimes affect persons of a particular sex only - A Plague in Italy once carried off 6,000 men



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men & scarcely a woman

16<sup>th</sup> They sometimes affect persons of particular rank only. In France 1757 the Dysentery attacked the rich whilst the Plague in 1758 attacked none but the poor. —

17 They sometimes attack members of the same communities & families only for the sameness of diet Predisposition &c. —

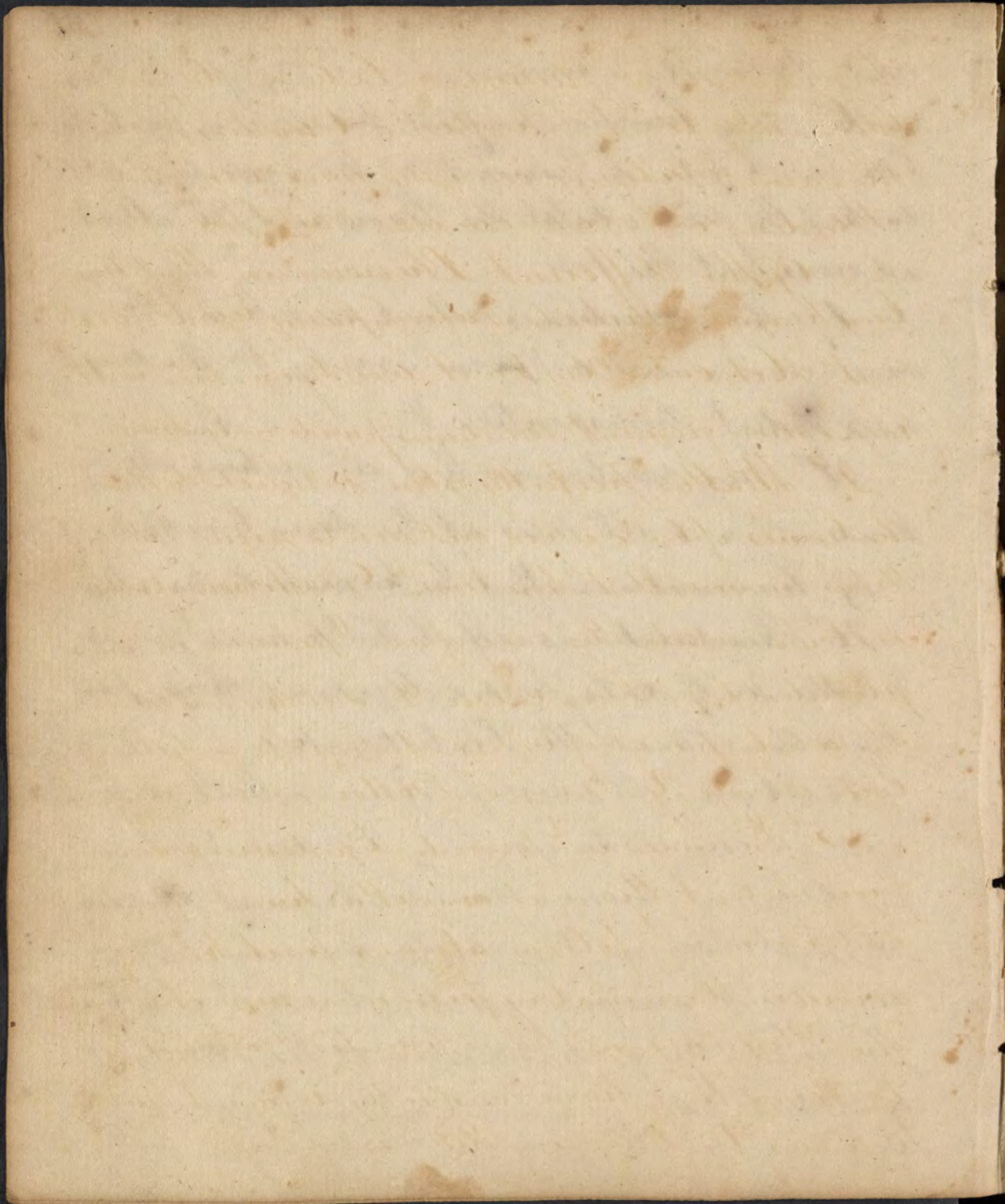
18<sup>th</sup> They sometimes affect all nations, all colours, all ages, all sexes at the same time & place

19 They sometimes affect the human species only

20 They sometimes affect the human species together with cats, horses, dogs, cows, sheep, fish, & all the others of the brute creation. —

21 Lastly — It must be observed that different remedies must be used in the same Epidemic, in different seasons & under different circumstances. They are perpetually varying & consequently no uniform mode of treatment is to be pursued. Their changes must be attentively watched, & our remedies adapted accordingly







This compels a Physician to be a Student as long as he lives. The same Remedies w<sup>h</sup> cure the same Epidemic one year will kill the next. Bleeding will cure one year & kill the next.

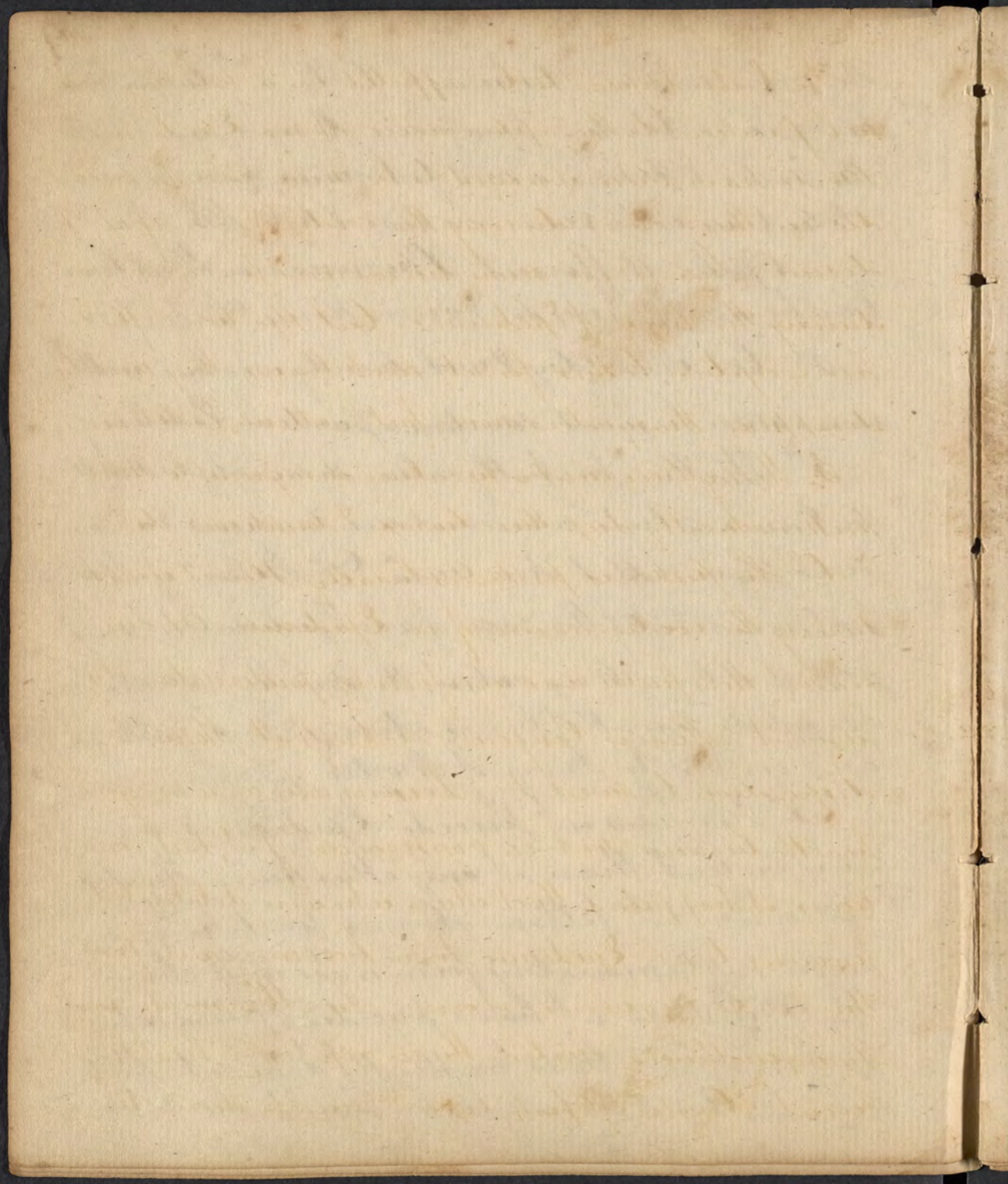
Of the different Phenomena that have been known to precede & accompany Epidemics

1<sup>st</sup> Hot, cold, dry & wet, windy weather with rains more frequent sometimes precede an Epidemic

2<sup>d</sup> Weather perfectly calm, so much so that the leaves of trees were not seen to move & authors have called "the Aura" Dr. Milron of Morristown relates the case of an Epidemic w<sup>h</sup> was preceded by a long calm, & smoky vapour. The white paint of bones changed to a yellow colour in the Y. Fever of Boston.

3<sup>d</sup> Diseases w<sup>h</sup> precede Epidemics are more violent than at any other time. The diseases also w<sup>h</sup> follow always partake of a more inflammatory form, or are more chronic. The Pleuritis w<sup>h</sup> have preceded & followed the Y. Fever here, have constantly required more copious & purging than ordinary.







4<sup>th</sup> Cats appear to be affected in a peculiar manner previous to the appearance of an Epidemic. Birds have been observed to be more scarce, & even die in their cages during the continuance of an Epidemic. Insects are more numerous previous to or during the time of Epidemics, but the House fly is an exception to this, for at such times they mostly disappear. Mosquitoes never fail to attend Pestilence.

5<sup>th</sup> Many trees emit a peculiar disagreeable smell, preternaturally drop their leaves, & sometimes die.

6<sup>th</sup> The pulse is preternaturally slow & weak during the continuance of an Epidemic. At one season the pulse was uniformly preternaturally frequent. There is languor, sickness at Stomach - disposition to sweat &c. Persons who were in good health became sick in consequence of it, but sometimes it happened that others who were debilitated previous to an Epidemic have become quite healthy in consequence of one. The Miasmata in these instances excited them up to the healthy point. Oysters & fish live a much shorter time







during an Epidemic. The clouds affected the Patients in the Y. Fever at Charleston by obscuring the sun. Whence these changes? Nineteen out of twenty diseases are derived from the changes of the atmosphere with the Cooperation of Miasmata. If Epidemics are changed by so many circumstances, they sh<sup>d</sup> be observed with a Microscope every day.

Some persons have supposed Epidemics to be a curse or a judgment upon them. Reason not only rejects but loaths such nonsense. Let old women & children who assemble around a kitchen fire to hear the tales of Fairies & Hobgoblins believe this.

Thos Gent. I have delivered to you such facts as I have acquired from observation & experience, during my whole life, & think it proper here to observe that it is the duty of Physicians to be students as long as they live. —

Aliments & Drinks as productive of disease. This is an important part of our Pathology. I have said before that 4/10 of all the diseases are received into the system by means



1771. The first of the year was a very cold one, and the  
winter was very severe. The snow lay on the ground  
for many weeks, and the frost was very hard. The  
people were very much distressed, and many of them  
died of the cold. The spring was very late, and the  
summer was very hot. The harvest was very poor,  
and the people were very much distressed. The  
winter was very severe, and the snow lay on the  
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and the people were very much distressed. Many of  
them died of the cold. The spring was very late,  
and the summer was very hot. The harvest was very  
poor, and the people were very much distressed.



of the mouth & feet. -

Aliments produce disease by their quantity & quality & 1<sup>st</sup> Of their Quantity. When great disease is produced by an over distention of the Stomach, & by affording too much nourishment to the system. Too much nourishment disposes to all the diseases of Plethora as Apoplexy &c paves the way for indigestion & dyspepsia, & lays the foundation for 2 vile practices, viz drinking & using Tobacco. The effects of too much nourishment will be in proportion to the exercise taken. A labourer can take much more food with impunity than the idle & sedentary. The quantity of Food necessary for a labourer is about 8℔ but for a sedentary man from 4 to 6℔ is sufficient. The quantity of meat sh<sup>d</sup> be regulated by the quality. The use of aliment is not only to nourish the body, but also to act as a Stimulant. Chardin tells us of a Persian, who would eat 35℔ of water melon a day without injury. Persons accustomed to a definite quantity become sick when increased or.



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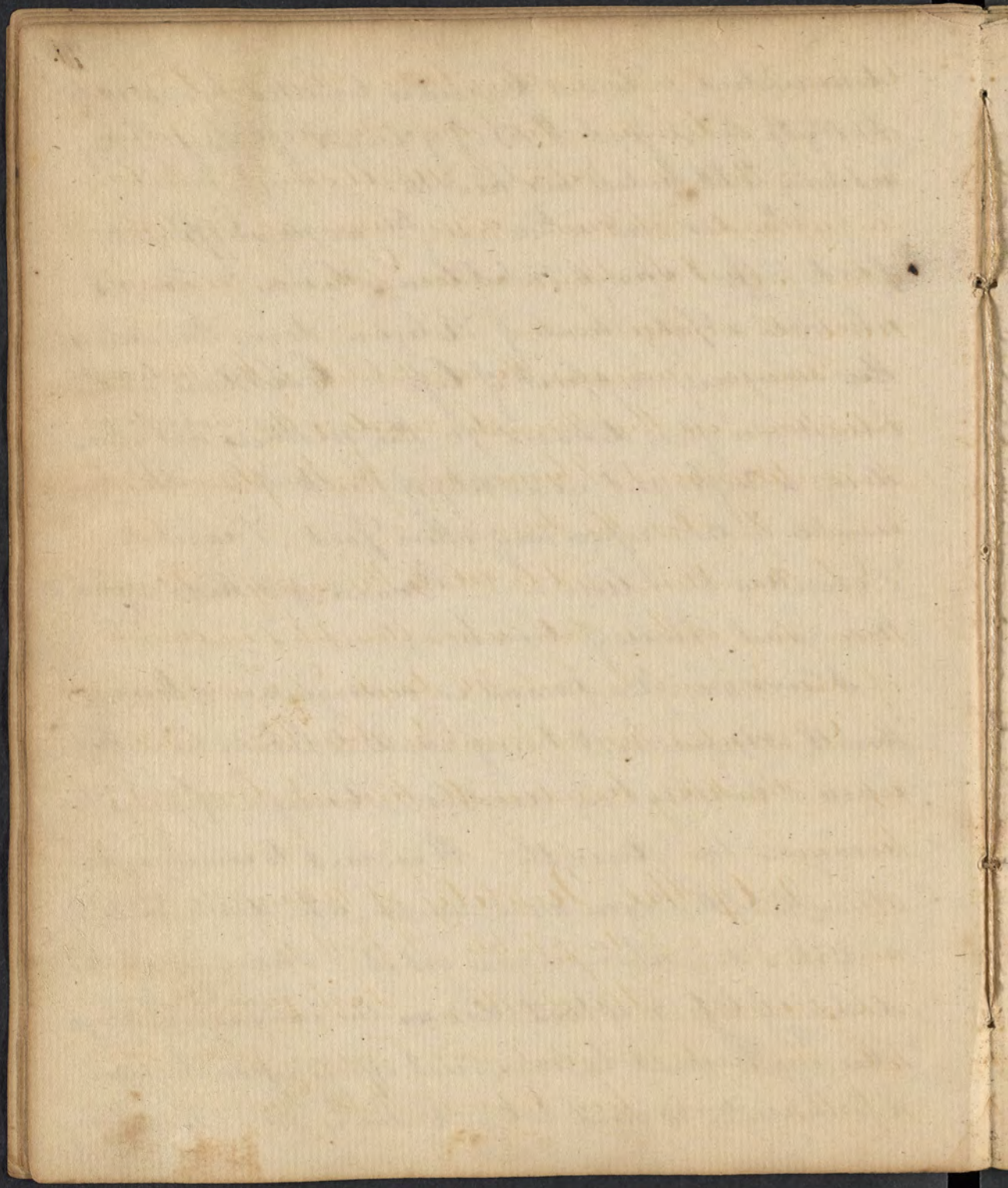


diminished - Lewis Carnaro limited himself to 12 Oz of solid food & 13 Oz of drink <sup>per</sup> day - By adding 2<sup>lb</sup> he lost his health. -

The diseases w<sup>h</sup> arise ~~from~~ <sup>from</sup> an insufficiency of food affect chiefly children, Slaves, & Monks who thro' a false sense of Religion deny themselves the necessary support of life. Children at the breast are often diseased <sup>from</sup> the mothers not affording a sufficient quantity of Milk since they are unable to live upon any other food - Diarrhoea Dysentery &c follow - Boarding schools is another great source of disease. -

Slaves are often diseased in consequence of having small allowances, & being made to labour hard by cruel & unthinking masters. Hunger appears to increase the strength. It is said to increase the strength of the Lion very much, who devours 20<sup>lb</sup> of flesh a day when he can get it - Stimulus of the desire of life & of food, causes the increase of strength. Hunger is said to have great effects upon the temper - hence it is said to break down stone walls &c







before it. It was owing to the Strength & Firmness of temper, that was supposed to follow hunger that the Duke of Marlborough used to say he preferred Scotchmen when Hungry, Englishmen when full, & Irishmen when Drunk. for an immediate engagement. -

Famine increases the excitability of the system, excites pain in the Stomach, renders the secretions & excretions acid, & hemorrhage from the Stomach, delirium & close the scene. -

Dr Franklin used to relate the case of a Benjamin Lay of this State, who attempted in imitation of our Saviour to fast 40 days. During this time the Dr visited him & found his breath so acid, that upon shaking hands with him, it drew tears from his eyes -

2<sup>d</sup> Of the Quality of Aliments. These are Animal & Vegetable & first of

Animal Aliments. - Fish were supposed to be the first animal food of man - A diet solely of fish produces lice, Leprosy, Itch, Diarrhoea Dys



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entering &c. Food wholly Animal produces Fetid  
 Sweats Scurvy &c. & the animal food of Carnivorous  
 Animals produces these effects in a much greater de-  
 gree, than that of Graminivorous Animals - & old  
 animals more than young. There's a great dif-  
 ference between the effect of wild & domestic Ani-  
 mals, the former being much the most wholesome.  
 The Indians who live altogether upon the wild  
 are exempted from almost all the diseases to which  
 we are subjected. They are not however so strong,  
 but more active, than those who live upon do-  
 mestic animals. — Animal food produces  
 disease when much exercised before being killed —  
 An instance of this occurred some years ago. A  
 Farmer killed a Beef after working him very  
 hard, & sent it to market. The result was that  
 out of 15 persons who ate of it 14 died. — Animal  
 food also produces disease when putrid. — Secondly

Of Vegetable Aliments. Notwithstanding per-  
 sons in warm climates live upon them; yet in  
 other climates they produce disease. A Diet



x Beans are said to be flatulent - Cabbage bad  
of Digestion

Living on vegetable food however has its advantages - it increases the clearness of the understanding  
Sir I Newton lived on bread & water while he  
was writing his essay on Optics. —



wholly vegetable produces Diarrhoea Dysentery, Dropsy, Dyspepsia, Costiveness, a disposition to Gout - lessens the heat of the human body, impairs the venereal appetite, lessens the size of the human body &c. Some are supposed to act specifically on the system as Beans, which produce flatulency - hence the reason why Pythagoras forbade the use of them at his school. Cats are said to produce cutaneous diseases, & Cheremits when green, are said to dispose to mental debility.

Many other circumstances independent of the quality & quantity of Food, influence their effects upon the system.

1<sup>st</sup> The preparations of aliments in Cooking, materially affect their digestibility. Oysters when overdone have produced Colic, at times death. Milk in its simple state disagrees with many stomachs - a supper of toasted cheese has produced heartburn & apoplexy; & however taken, it always disposes to Costiveness.

2<sup>d</sup> Food taken into the stomach without being suf-







ficiently masticated, produces Dyspepsia &c

3<sup>o</sup> Too great intervals between meals disorder the Stomach. This sh<sup>d</sup> be avoided by carrying a little gingerbread or Circuit w<sup>th</sup> sh<sup>d</sup> be eaten between meals—

4<sup>o</sup> Exercise or Rest influence the food in the Stomach, the former rendering Animal food harmless, whilst a vegetable diet is more suitable to the latter. Some Philosophers have ventured to predict that vegetable aliment will in time become the only Food of the Human Race.

5<sup>th</sup> Eating too much after fasting is a great source of disease. In a convalescent state the most dangerous relapses & even death are brought on by eating too much or taking a small quantity of Animal food after having been restricted to a low vegetable diet. This is one of the greatest sources of unsuccessful practice. When families in Europe travel for health, they are sometimes attended by a Physician, who regulates their diet, drink, dress, &c & the benefit derived from



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such a custom is considerable. —

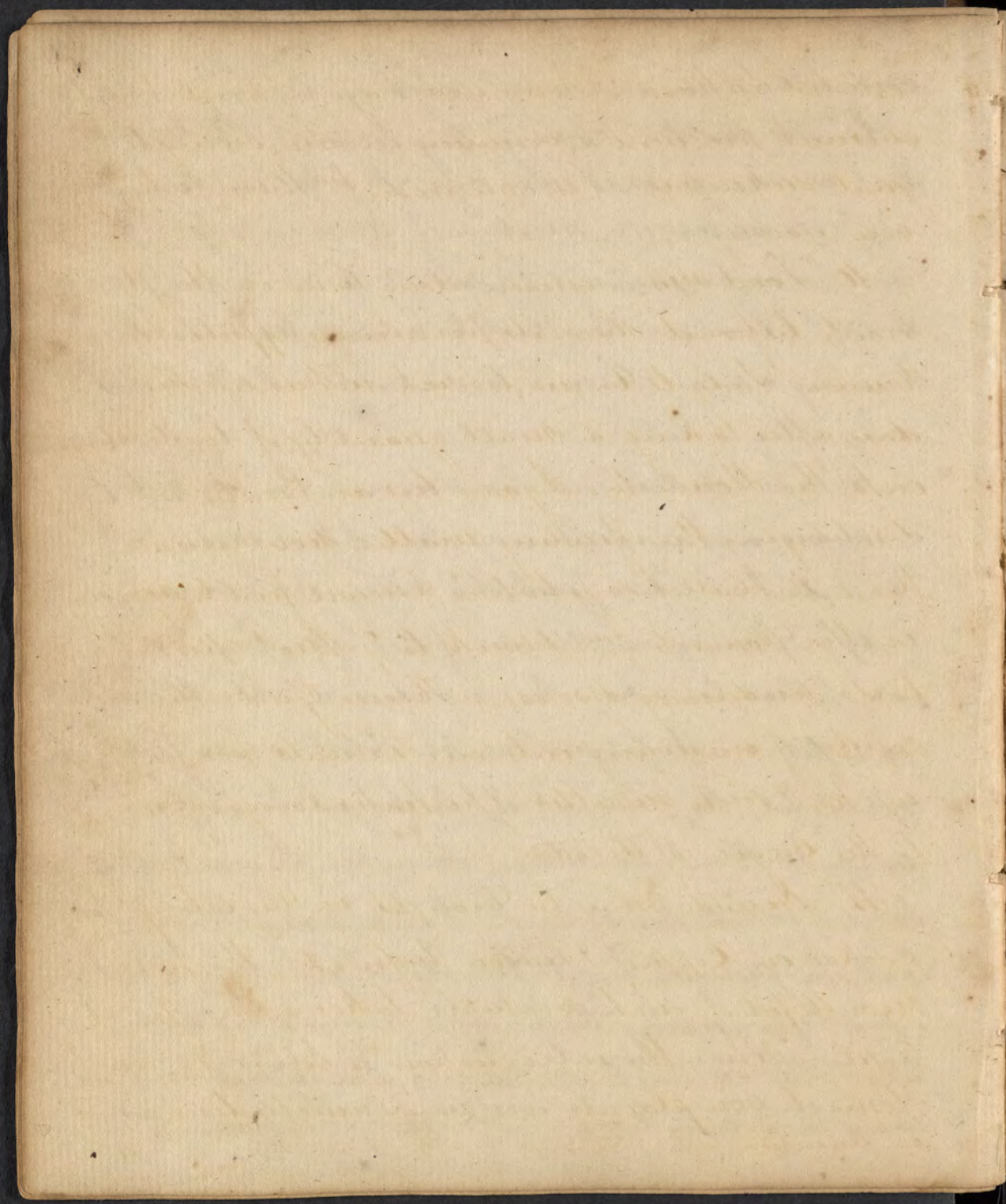
6<sup>th</sup> The sudden change from Vegetable to Animal diet or vice versa, is very injurious to health.

7<sup>th</sup> An improper mixture of Aliments is likewise very prejudicial to health (see Inquiries Vol 1) However it is best to advise patients labouring under chronic diseases to eat of one dish only at a meal. —

8<sup>th</sup> Food taken into the Stomach too hot or too cold, produces an inflammation of that organ & Mr. Reid died at New York, by eating ice creams. —

9<sup>th</sup> Novelty in Articles of diet often produces disease, & that too when the new diet is taken in small quantities. Water melons, peaches &c are not received into the Stomach in the beginning of their season without producing some unpleasant symptoms, & sometimes disease. It appears in this case that the Stomach forgets her old acquaintances, but upon recognising them, soon renews her cordiality. The Stomach sometimes remembers her Enemies for a long time, & scarcely ever becomes re-







conciled to them: Some years ago, a single boiled chestnut produced a vomiting in me, owing to a great sickness w<sup>ch</sup> I experienced fr<sup>m</sup> them when very young

10<sup>th</sup> Food may remain along time in the Stomach before it shews its pernicious effects. I once knew a Lady to be made sick not until the 3<sup>d</sup> day after taking a small quantity of Roasted cheese into the Stomach. I gave her an Emetic w<sup>ch</sup> by discharging the offending matter soon relieved her. Dr Haller says he has known food to remain in the Stomach fr<sup>m</sup> 1 week to 7 Mo<sup>s</sup> previous to its producing disease. Hence Gent: the necessity of inquiring into our Patients food, for days, weeks, & even months & perhaps longer previous to the Origin of disease. —

11<sup>th</sup> Disease may be brought on by eating food cooked in Copper & leaden vessels &c. The first mouthful of such victuals takes away the appetite. Since the introduction of Silver & Iron, Stomach complaints are very much diminished in number. —



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Also by filth & extraneous bodies getting into the vessels used to convey food into the system. I once knew an instance of a whole family becoming sick by eating a Baron of milk, into w<sup>ch</sup> a Spider had fallen. —

12<sup>th</sup> Animal food is sometimes rendered unhealthy for a peculiarity of diet on w<sup>ch</sup> this animal had subsisted for some time previous to its being killed for our food. Some families in Philadelphia were once diseased for eating a parcel of Pheasants w<sup>ch</sup> were brought to market. The Physicians universally attributed this complaint to the cause I have mentioned; & these animals were condemned to be improper & poisonous. The cause of this poison was for the Pheasants eating Laurel berries w<sup>ch</sup> is the only food they can get in the winter & is known to give a temporary poison to the flesh of these animals as well as to the deer & some few others. I once knew 60 students at Princeton College to be affected with a Diarrhoea for eating a pie made of Pidgeons w<sup>ch</sup> had chiefly subsis-



Salt produces Scurvy

ted on Poke berries. —

13<sup>th</sup> Salt diet when well proportioned to the state of the system is not unwholesome. The reason that children living in the country are less affected with Cholera infantum than those of the town is owing I believe to the salt diet used by the former, whilst the peculiar situation of the latter hinders them from any but fresh food. It were to be wished that our Farmers w<sup>d</sup> live on fresh meat in winter & on salt meat in summer.

14<sup>th</sup> There is an Idiosyncrasy w<sup>h</sup> renders aliments wholesome or unwholesome to particular persons, & this Idiosyncrasy is hereditary. Many people can't eat fish &c. &c. —

Condiments are productive of disease. These are salt, Vinegar, Mustard, Sugar & Spices. —

Salt is so universal and useful an article of diet that when it could not be obtained, as the alkalis were frequently known to be its substitutes. Some nations as the Brazilians & our Indians have never seen salt, but they use in its stead.



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Some alkaline substance. —

2<sup>d</sup> Vinegar is both wholesome & proper in small quantities. But when taken in large quantities produce Dyspepsia, Gastrodynia, Cholera, a disposition to Gout, & a variety of other distressing Complaints. In 1770 it was said to take down the fat of the system & induce leanness. Some of our ladies then used it very profusely & injured their constitutions materially by it. —

3<sup>d</sup> Mustard The same may be said of this as of vinegar. I once had a Gentleman & Lady with a very obstinate Gastrodynia under my care, & happening to dine with them observed that they used Mustard & vinegar very profusely. I advised them to lessen the quantity of these two articles — they did so, & soon recovered. Patients often suffer from large quantities or particular qualities of food. Dr Zimmerman informs us that Frederick II<sup>d</sup> King of Prussia fell a victim to his ungovernable appetite. He was an enormous glutton, w<sup>d</sup> eat 7 times a day, &





took by way of a Relish between Breakfast & dinner a large Eel pye. He w<sup>d</sup> never believe that he ate too much, & when spoken to about it w<sup>d</sup> always say that he only ate a sufficient quantity to keep soul & body together. He was remarkably fond of Condiments & the same Dr tells us that at 72 years of age his kitchen resembled an Apothecary's shop more than any thing else

1<sup>st</sup> Sugar notwithstanding it is the most grateful & nourishing of all Condiments when taken in moderate quantities, yet when taken to excess produces Dyspepsia & Honey & Molasses when taken in excess also produce disease. —

5<sup>th</sup> Spices when taken in small quantities assist digestion but when taken in large quantities have a contrary effect. —

We will now turn our attention to the effects of Tea & Coffee. — A revolution has been made in the customs, manners &c of every nation since the introduction of these articles. —

Tea principally injures by being taken too



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strong, hence kitchen women are more affected by it than their mistresses. Tea will sometimes bring on, & sometimes prevent sleep; if the system be below the sleeping point, then its stimulus may induce sleep; but if the system be excited above the sleeping point, it prevents sleep. Tea produces nervous complaints as Hysteria & when taken very strong & in large quantities - also Gout - hence women are more affected with gout than men, as I shall show you hereafter. -

Coffee is a gentle stimulus & will sometimes produce all the effects of ard<sup>t</sup> spirits. I knew a Physician in this City who always, previous to his going out on a visit to his patients in the cold, drank a pint of hot coffee. It sometimes produces Vertigo & other diseases; in consequence of it - I always forbid its use in any one of them - Neither tea or coffee are nourishing, they only become so by the sugar taken along with them. -

Of Drinks as productive of disease. These are Water, Wine, Beer, Cider, & Ard<sup>t</sup> spirits. -





1<sup>st</sup> Water is the most wholesome of all drinks; but, like the rest, it is sometimes the cause of disease. It is the cause of disease - 1<sup>st</sup> By its sensible qualities - Cold water injures the tone of the Stomach (that is when very cold) by its sedative effects. When the system is very much heated, violent spasms of the Stomach arise from drinking very cold water. The teeth are peculiarly affected by cold water. Mr Spencer a Dentist in this City, informed me that he drew 3 teeth in summer for one in winter w<sup>ch</sup> may be ascribed to this cause. Water moderately warmed, or suffered to stand half an hour in the air, never produces those dreadful symptoms w<sup>ch</sup> are sometimes its consequences when taken very cold. It also quenches thirst better than when it is very cold; because this last abstracting so much the heat of the Stomach leaves the system debilitated; in consequence of w<sup>ch</sup> the system reacts so powerfully, that a Fever is produced, & water is again required to compose this Fever; whereas water not so very cold produces no such effects,







since the system has not to react & therefore no fever is produced. —

2<sup>d</sup> By being mixed with unhealthy particles. Water in Cities is generally unwholesome for the following reason, that the filth in necessaries ~~are~~ are dug 30 or 40 feet below the surface of the earth, generally affect the pump water at the distance of several feet from it. It was on this acct that Dr Franklin proposed supplying the City with water from the Schuylkill. Ice in water, beer, Cider, & punch will produce death but not in wine or Cord<sup>n</sup> Aft. I have known a case of death to be bro't on by drinking ice punch. General Wayne was affected in 1792 by two large draughts of ice punch. Water is most wholesome when running over beds of sand or gravel. — 3<sup>d</sup> By the quantity & time at w<sup>h</sup> it is taken. Cold water when taken at improper times injures the system — the same may be said of it when taken in large quantities. Many people injure the system by taking large draughts of water early in the morning, or late in the evening just before



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going to bed. This practice comes on by intemperance & is then kept up by habit. It is however a pernicious one, as also that of drinking between meals. The Indians scarcely ever drink water until the evening - Large drinkers of water are generally great gluttons.

2<sup>d</sup> Wine has a tendency to produce Gout in the extremities - Here I must observe that Gout in the extremities is always produced by fermented or spirituous liquors - Gout may be induced in the stomach without them; but I never knew a case of Gout in the extremities except in persons who had been accustomed to those drinks. Wine produces Gout more readily in warm than in cold climates, & has a tendency to induce costiveness when taken after supper. It is more wholesome when taken with food than without it.

3<sup>d</sup> Beer like wine, when taken in large quantities disposes to Gout & sometimes to Rheumatism. It has been said to produce Gravel, if so, it is in consequence of its acidity. Dr Haller said that out of 100 patients who died of Gravel, not one upon examina-



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ation had been found to use beer

4<sup>th</sup> Cider may be drunk with impunity by labouring persons; but it is productive of Gout & Rheumatism in the sedentary. I knew a Gent. & Lady in whom the gout was always excited by it. The fruit from which it is obtained is often difficult of digestion in some stomachs productive of the same complaints. If a red hot iron be plunged into Cider I suffered to cool, its tendency to produce Gout & Rheumatism is entirely destroyed. The iron acts by obviating the acid. —

5<sup>th</sup> Ardent Sp<sup>ts</sup> as a drink & source of disease. — See Med. Inquiries Vol. — It may be proper however to observe that their effects are experienced on the Nerves, Bloodvessels, Lymphatics, Brain &c also upon the Moral Faculty. — I have elsewhere said that I wished my Pupils to be distinguished by their knowledge of & attention to the pulse. There say I wish them likewise to be distinguished by their disuse of Ardent Sp<sup>ts</sup>. If any of you ever see a Physician with a red nose or trembling hands, or see



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him in a Tavern drinking brandy & who calls himself my disciple, Contradict him, I discover him - he is not my disciple but a Brunonian - They sh<sup>d</sup> not be used as medicines lest our patients contract an appetite for these detestable articles

Dress as inducing disease - Who w<sup>d</sup> believe that the dress first used to cover our nakedness, after our fall fr<sup>m</sup> primordial innocence w<sup>d</sup> be so used as in time to constitute a part of our destruction. The diseases fr<sup>m</sup> dress arise fr<sup>m</sup> the quantity Fashion, & quality of our clothes

1<sup>st</sup> Dress too heavy in Warm weather pre disposes to disease. -

2<sup>d</sup> Fashion is often a source of disease, by dressing too thin thick or tight. I knew a Lady who fainted immediately after she was dressed to go to a tea party fr<sup>m</sup> being laced too tight in her stays. I believe a great many diseases of the brain are brought on by tight cravats, shirt collars & Garters by preventing the return of blood upwards, cause large knees, Anasarcaous legs &c

3<sup>d</sup> Quality of clothing has a great influence.







over the system. Woollen or Cotton clothing is best  
next the skin. Woollen clothes have many ad-  
vantages when worn next the skin - 1<sup>st</sup> They keep  
up a gentle perspiration - 2<sup>d</sup> When wet they are  
not so disagreeable, so cold, or so productive of dis-  
ease - 3<sup>d</sup> They may be worn any length of time  
next the skin without producing vermin pro-  
vided the other clothing be kept clean. After  
having considered the diseases of dresses, let us  
next consider the dresses of diseases - 1<sup>st</sup> Hair pow-  
der is a dress of disease, as it was first put on the  
head in Poland to prevent the Disease Plica  
Polonica - 2<sup>o</sup> Patches in the face were introduced  
by some drunkard to hide the pimples of this part.  
3<sup>o</sup> Neck cloths were first introduced by Henry the  
to hide the deformity occasioned by the Scroph-  
ula 4<sup>o</sup> Boots were first introduced by Charles 1<sup>st</sup>  
to hide the deformity of his legs. —

Poisons are of a relative nature  
for the part <sup>to</sup> they affect - As the Ripers poison  
when swallowed is innocent. Some substances are



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poisonous for particular Animals while they are food for others; or they are poisons to an animal in one state of the system, while in another state of the system & to the same animal they are innocent

Poisons are such substances w<sup>h</sup> when taken into the system produce disease or death, & that they act relatively is proved by the following fact. The venom of a viper has been swallowed without having any effect, but when taken into the blood vessels it immediately kills. Poisons are only so for their quantity. A small dose of opium is an agreeable stimulus; but if taken largely kills. Poisons are taken from either the animal, vegetable, mineral, or Cerial kingdoms. It belongs however to Natural History to point out the different poisons. It is my province only to explain the manner in w<sup>h</sup> they operate. Poisons like Miasmata act by producing local inflammation. The bite of a Spider does not kill by its poisonous quality, but by inducing morbid excitement & then bringing the rest of the system into sympathy with the affected part.



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2<sup>d</sup> In the Vegetable Kingdom we have poisons as *Nicotiana*, *Cicuta*, *Hyosciamus*, *Digitalis*, *LauroCerasus*, *Datura Stramonium*, *Monkshood*, *Drosera* &c. Buckwheat, so nourishing to man, is a poison to some Animals. Others are less dangerous, as the Cashew nut, w<sup>ch</sup> acts only upon the skin.

3<sup>d</sup> Mineral Poisons are Arsenic &c

4<sup>th</sup> Crial, or Crial acid. Naphtho samoil & samoon winds & the different kinds of air unfit for Respiration —

Poisons have been supposed to act by destroying a certain something called the living principle; But since we have denied the existence of such a principle, it becomes us to account for its operation in another way. We said that the Functions of the system were kept up by certain Stimuli acting thereon. In short life is a forced state, & consequently the way we account for the operation of poisons is, that they destroy the parts to w<sup>ch</sup> they are immediately applied, & thereby destroy the ability in the system of discharging its various functions — They produce in parts whose motions are essential to life an inability to perform





those motions, & their death. They produce this effect in the same manner that a string tied round a bell, or a piece of wax placed round the string of a violin, prevents the emission of sound from either of them. They act on different parts, & are fatal in proportion to the importance of the part affected. When they act on the Brain & produce death they are taken in by the mouth, & destroy the excitability of the Brain.

Poisons act specifically 1<sup>o</sup> On the Mind 2<sup>o</sup> On the Brain 3<sup>o</sup> On the Nerves 4<sup>o</sup> On the muscular system 5<sup>o</sup> On the Lymphatics 6<sup>o</sup> On the Sanguiferous system 7<sup>o</sup> On the Skin 8<sup>o</sup> On the Stomach & Bowels 9<sup>o</sup> On the Lungs 10<sup>o</sup> Poisons act generally on the system, as Opium *Miscellaneous*

Chemistry affords us examples in support of our doctrine of poisons. Mercury put upon gold destroys all its properties of ductility malleability &c. Zinc & copper are both within themselves innocuous; but upon mixture form a fine, brittle, sonorous & elastic compound. Many other examples of like





nature might be adduced for Chemistry. May  
not therefore poisons act upon the blood by mixing  
with it & destroying its vitality. Formerly we looked  
up for power to Monarchs & Princes, but of late we  
have looked downwards & found it to reside in the  
people, since that time we have become more wise  
& happy. But not so in medicine. We have all  
been looking inwards for some invisible principle  
of life, but the Theory I have offered directs us to  
seek for it for some external quarter. Since this  
theory has been advanced, the Phenomena of ani-  
mal life seem all more plain & simple. We must  
now look outwards for the support of life, & like  
the Indians with their Gods, think we see them  
in the clouds & winds. —

There are some poisons which do not destroy life  
immediately, (these are taken chiefly from the veget-  
able kingdom) but by a long & lingering illness,  
exhaust the patient, & thrust him insensibly as it  
were out of the world. Their stimulus excites a Rec-  
tic or Chronic Fever. — This is the way I explain the





the action of those poisons used in the Southern States by the Slaves to extinguish the flame of life in their masters or mistresses. The Miasmata w<sup>th</sup> produce Ty. Fever sometimes kills instantly, but it nevertheless may & often does bring on a Chronic fever.

There are frequent instances of persons who have been poisoned, arriving again to perfect health. Even Arsenic itself sometimes yields to the efforts of the system to recover itself. —

Of Foreign matters introduced into the System as productive of disease. —

Worms for their universal appearance in all Animals, I am led to believe serve some purpose in the Human body, & that when disease is produced by them, it is either by their being in too large a quantity, or by their getting into some improper place. They are found in almost every part of the Human body, in the Liver & Gall bladder & Stomach, Frontal & Maxillary sinuses, Ears, Nose, Brain, but most frequently in the Alimentary Canal. The different kinds of worms are the



x They are often found in the Lotus & are produced  
from the liquor in which it floats - Some say they are  
spontaneously - but this is erroneous - Sponta-  
neous Creation cannot be admitted with deter-  
mining the Governor of the Universe

Lumbrici or round worm they are red - The T<sup>e</sup>-  
nia or Tape worm, Ascarides, & the Ground  
worm. These may be taken into the system by ali-  
ment, or are generated in it.<sup>x</sup> I am induced to believe  
that only the Lumbrici serve a good purpose in the  
system. This may be by consuming the superflu-  
ity of Aliment. The effects of worms are seen more  
in fall than in any other season. Children are  
more subject to them than adults. Some nations are  
more subject to them than others. The French Ital-  
ians & Germans, more so than any other nation.

Worms produce disease only by their quantity,  
or by their being misplaced, & I am disposed to think  
that children sometimes get sick for want of a suf-  
ficient quantity of worms. They have no effect upon  
the bloodvessels, hence then you see I deny the existence  
of worm fever. Worms w<sup>h</sup> lie dormant during the  
winter & spring are frequently roused into action  
in the fall by an inflammatory fever. The additi-  
onal heat of the body disturb them & render them  
restless, so that instead of the worms causing the fever





It is the fever, we may say, that generates the worms. From what I have said Gent. you may think I believe there are few diseases resulting from worms. I would by no means inculcate such an Idea, I believe there are few diseases of children but what are more or less, owing to or accompanied with worms. I seldom therefore advise Medicines in chronic cases of young people, without at the same time having an eye to worms. —

### Of Anomalous or Extraneous Bodies

introduced into the Stomach, Lungs, Nose skin &c as productive of disease. — I have known death to be induced by swallow<sup>g</sup> a cherry stone. Copper taken into the Stomach produces distress, Nausea &c. I knew a Lady who swallowed a Water mellow-seed w<sup>h</sup> went the wrong way, a violent Cough ensued, but ceased as soon as the seed was discharged w<sup>h</sup> was greatly enlarged. —

Children frequently push grains of Coffee &c up their nose, consequences of w<sup>h</sup> are often very bad, since they often tend to bring on Polypus &c. —



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Pins often produce disease by being introduced into a part & not immediately extracted. I attended in Consultation a Son of Mr R Morris, with a sore in the Groin, w<sup>h</sup> was not benefitted by any application, until a pin was drawn fr<sup>m</sup> it by a Mr Burke who was a member of Congress & then it quickly healed. A Lady in this City had great pain in her Vagina for some time, after a while she discharged a pin fr<sup>m</sup> that part, & was soon brought to her usual state of health. Wounds fr<sup>m</sup> Nails especially in tendinous parts often induce Tetanus. —

Shot Bullets & Powder frequently produce disease after having remained in the system a long time. I knew a young man who was affected with delirium every 2 or 3 years until a few shot were discharged w<sup>h</sup> had been lodged in the Bottom of his feet when young. —

Splinters are frequently the cause of disease. I attended an officer about the time of the American Revolution, who had a pain in one of his legs, in consultation with another Physician. We both agreed



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that he had the Gout & treated it as such. Some days after this, there came from the place of pain a splinter of about  $\frac{1}{8}$  of an Inch in length w<sup>h</sup> had been thrust into his feet some years before. —

Paints Powder & Lomatum are frequently productive of disease, such as headache &c.

Retained Excretions are productive of many diseases

Foces when retained for any length of time are very injurious. Their effect however are different upon different persons. Many people go along time without suffering any inconvenience from the retention of their Foces particularly sailors. I knew a sailor who went from Philadelphia to Lisbon & back, without having a single passage in the whole time. Dr Haller believes the great Longevity of birds to depend upon the Readiness with w<sup>h</sup> they discharge their Foces. There are many instances of persons going a week, month, & even more without a focal discharge, but in general it disposes to many diseases. 1<sup>st</sup> Dyspepsia & diseases of the Stomach. 2<sup>d</sup> The Piles in consequence of Foces hardening







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in the intestines - 3<sup>o</sup> Colic, 4<sup>o</sup> Inflammation of the  
intestines by their irritation. 5<sup>o</sup> Ruptures as in-  
guinal, Scrotal, & Umbilical. 6<sup>o</sup> Diseases of the Brain  
The most healthy time for an evacuation of the fo-  
ces is generally once in 24 hours. But this period  
may be exceeded for a short time & no disease produced.

Perspiration when retained produces dyspnoea &  
eruptions of the skin, sneezing, Colic Diarrhoea &c.  
The following are some of the causes w<sup>h</sup> produce an  
obstruction of the perspiration - 1<sup>o</sup> Unusual exercise  
of the mind - 2<sup>o</sup> Fatigue of body - 3<sup>o</sup> Improper clo-  
thing 4<sup>o</sup> Damp air - 5<sup>o</sup> Night air

Bile when absorbed produces Costiveness, jaun-  
dice, inactivity, diseased or false vision, making  
every object to appear yellow, obstruction of the  
liver &c. The Causes of this obstruction are first  
on in 3 ways - 1<sup>o</sup> Spasm - 2<sup>o</sup> Calculus or Gallstone  
3<sup>o</sup> Viscidity as in the Ty. Fever. - The Hepatic bile  
is a secretion, & the Cystic an excretion - 1<sup>o</sup> The Cystic  
bile commonly induces Costiveness, & the black  
jaundice - 2<sup>o</sup> Of the Hepatic Bile - this produces the



+ Hemiplegia. Eupsy.



Yellow Jaundice, either from the absorption or Regurgitation of bile, & emaciation of the whole system - Dropsy, Nausea, Schirrus, imperfect blood, white Serum. —

Serum when retained, how does it produce disease? I answer it does not unless accompanied with a preternaturally strong venereal appetite, then it may produce Plethora, distention & thereby Hysteria, Melancholy, Madness & Death accompanied with Priapism. —

+ Menstrues when retained produce a Majority of the female diseases whether of the Chronic or of the acute kind. The Suppression of the Menstrues, produces diseases of an highly inflammatory kind, w<sup>h</sup> stands in need of the Lancet, & not of the Pennyroyal Tea, or other Stimulating medicines termed Emmenagogues. —

Rest & Motion. Rest by suppressing perspiration is unfavourable to health hence the necessity of imposing on man labour after his Apostacy - to earn his bread by the sweat of his brow. This was a blessing.



+ Too much motion produces vertigo bloody urine  
walking blisters the feet creates pain & -  
Running induces asthma, consumption, excessive  
labor produces debility predisposing to disease.



being in disguise. Women suffer less than men from a sedentary life.

Sleep & Watchfulness. Too much sleep produces debility from abstraction, & disposes to Fatness, indigestion, Fatuity & 6 hours in the 24 are sufficient. Most who lived to 80 seldom slept more than 4 in the 24. The follow<sup>g</sup> Circumstances respecting sleep sh<sup>d</sup> be attended to: —

- 1<sup>st</sup> Posture in Bed, head too little or too much elevated predisposes to diseases of the Brain. —
- 2<sup>d</sup> Keeping always on the back or on one side, to Palsy &c.
- 3<sup>d</sup> Damp sheets frequently generate Consumption.
- 4<sup>th</sup> Too small or large a quantity of bed clothes. —
- 5<sup>th</sup> Sleeping with our day clothes on
- 6<sup>th</sup> In a bed with curtains —
- 7<sup>th</sup> With the head covered —
- 8<sup>th</sup> With unhealthy bed fellows. Consumptive persons &c.
- 9<sup>th</sup> Sleeping with old people. —

Wakefulness is a relative term & depends upon Stimuli, both as to its quantity & quality. The Stimuli of the Passions will often prevent sleep without giving any injury. I knew a Card player who w<sup>d</sup>



Intense thought weakens the stomach bowels  
brain &

sit up 2 or 3 days & nights, without having any desire to sleep. Boerhaave once went 6 weeks without sleep. Haller tells us of a woman who passed 45 days without sleep. The want of sleep is owing sometimes to the debilitating passions of Grief Fear &c. They act by reducing the system below the sleeping point. But above all wakefulness is produced, or kept up by fever. This state of wakefulness is exemplified in the anecdote of Gen: Washington, & the Indian Cornplanter. In an answer to the General's reply, he has the following words. "Your words contained <sup>in</sup> the great paper you sent me were like the sun in the morning to a fever sick man, w<sup>h</sup> makes him glad, but does not cure the pain. —

We come now Gent: to an important part of our Pathology viz —

The diseases arising from the intellectual Faculties & Venereal Appetite. — A gentle exercise of the faculties of the mind is favourable to health, but intense thought brings on debility. 1<sup>st</sup> When too long continued, or till improper hours. — These <sup>people who</sup>



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who sit up late are seldom healthy. The Midnight lamp for this reason ought to be avoided. 2<sup>d</sup> It produces debility when the subject is disproportioned to the ability of the person. —

The Passions are divided into Stimulant & Sedative. The former as Hope & act Positively; the latter, as Despair & act negatively. These Passions are divided into Chronic & acute, or in other words passions properly so called & Emotions. Sometimes the Passions are mixed; & then they produce different effects, as ambition with Fear & —

Love produces different effects according as the person is successful or not. Those who are disappointed in love, always love stronger after it, if at the time with their being rejected, there is not something which will have a tendency to affront. For this reason Gregory in a legacy to his daughters, told them that when they were addressed by a man whom they intended to reject, to give a refusal in positive language, that he may have no possible hopes of future success. Unsuccessful love produces Dyspepsia, Hy-



Anger produces headache. Epilepsy, apoplexy, &c.



Hypochondriasis, Hysteria, Melancholy &

Joy. - Joy is a powerful Stimulant & will sometimes produce Syncope & even death. The door-keeper to Congress in time of the Revolution was struck dead suddenly thro' joy when he heard of the capture of Cornwallis. When joy does not produce death, a great depression of Spirits often follows & even suicide. Joy is greater when the excitability has been accumulated by previous fear. There is a species of joy denominated by the Indians the "joy of fear" - Frequent instances of suicide have occurred ~~for~~ excess of joy. The son of the Duke of Queensborough killed himself immediately after being united to the object of his affections. -

Anger is a powerful Stimulant, produces a flow of blood, with many other uncommon emotions of the system, & will even produce death. A shoemaker in this City died thro' excess of Anger, because he could not avenge himself of the injury which a parcel of boys had done him by blowing tobacco



+ The king of Egypt his son and daughter were  
taken prisoners the king saw from his prison  
window his son led to execution and his daugh-  
-ter carrying water in the capacity of a servant  
but did not weep but when he saw his servant  
brought forth to be executed his grief was  
reduced below the weeping point and he  
wept bitterly



smoke into his room, thro' the hole of his door. Also a Miser whilst he was complaining to his tax-gatherer fell dead.

Grief acts like a slow poison upon the system. It is one of the worst of sedatives. It produces Dyspepsia, Loss of Appetite &c. Grief when excessive will prevent a flow of tears. There is a point of grief at which the weeping point above or below it tears will not flow. Tears flow when excessive grief comes down to the weeping point hence Hypochondriac patients are so much better after the flow of tears, from this, it appears to approach the Hysteria. Persons under deep <sup>grief</sup> sleep more soundly than at any other time.

Fear, when excessive produces a quick pulse, dryness, debility, Aphonia, Asphyxia, Mania, Suspension of Labour pains, death. Fear causes the hair to rise upon the head, to become grey sometimes in one night. A man's hair became grey in one night, by the excessive fear produced by an earthquake w<sup>h</sup> destroyed Lisbon in 1755. It acts on the mind & sometimes annihilates the desire of



7

life. Speech gives energy in time of fear, hence loquacious men under fear, banish it by talking of any other thing besides the subjects around them. It produces debility & accumulates excitability, hence the reason why cowards perform great exploits. —

Terror is fear in a compound form, when combined with anger. — Terror may be defined to be fear embodied. —

Envy acts like a perpetual blister or issue.

Ambition is an inflammatory fever of the mind, & has great effects upon it. A minister of State in Sweden, died of a colic, by being taken for his place. —

Avarice. Many have died (to use the common expression) in debt to their backs & bellies. — It abstracts from the love of ones Country, neighbours, friends, relations, servants, wife, children, & lastly ones self. The follow<sup>g</sup> Epitaph was written on the tomb stone of the Avaricious Archbishop of Canterbury.

Here lies his Grace in cold clay clad

Who died for want of what he had. H



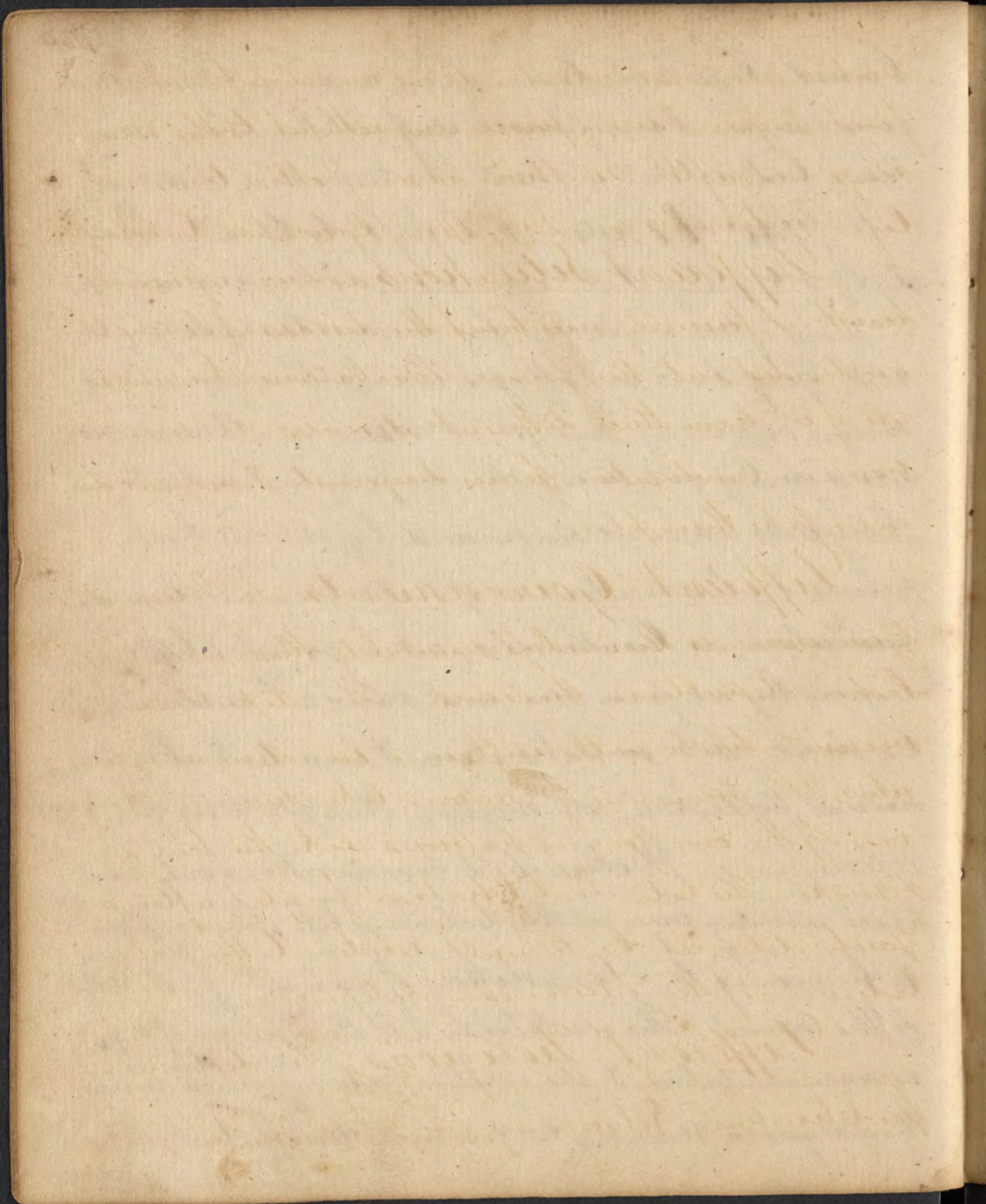
The effects of passions vary in different prodispo-  
sitions it is influenced by age sex rank religion  
time season climate duration &c.



It is only by a knowledge of the actions of the Passions in a simple & Compound state, that a man can have any influence over the minds of others.

The Venereal Appetite when indulged legally & religiously seldom injures. It injures when indulged by persons too young or too old. The old are not affected unless they have young wives or young husbands. When an old man marries a young girl, he expiates his folly by his death. It injures when accompanied by obscene books, prints &c. By medicines operating on the Organs of generation, as Cantharides, when gratified by onanism; by excess in married men, it is relieved by Sacch. Sat. or salivation & low diet. By seminal pollution in women this produces Furor Uterinus. — Debauched conversations only take place among men in the decline of life; this appears to be owing to a translocation of excitement from the body to the mind. The excitability at this period of life is accumulated, & the excitement diminished hence they require novelty to produce the effect w<sup>th</sup> their





Bodies are unable to do. And we more frequently find married men prove unfaithful to the Marriage bed after 50 than at any other time of life. The diseases are Dyspepsia Gonorrhea Consumption &c

Different Situations as they influence health. I formerly mentioned the diseases of Society & are divided into the Savage, Barbarous & Civilized, all of w<sup>h</sup> have their different diseases. As men advance in Civilization, fevers diminish & nervous diseases take their place.

Different Governments. In Monarchical Governments there is less sensibility than irritability but in Republican the reverse. The Republican Government has a gentle influence in acting as a Stimulus, & the frequency of Elections, like chimneys convey off the overflowing passions like the foul air & smoke. The late Lord Chatham fainted after a speech delivered by himself relative to the acknowledgment of the American Independence.

Different Religions. The doctrines of the Christian Religion are most friendly to health.



\* From accurate observation in the City of London, the average life of a baker was found to be 3 years. —  
Smiths of every kind for their exposure to heat & Cold are subject to inflammatory diseases &c.



Christianity is truly salutary, & the Physician who rejects it, sh<sup>d</sup> also reject the principles of his profession.

Different Employments. Farmers are generally healthy. Carpenters are very long lived, because they labour in the open air. Fevers are more common to these two, & the Scurvy to Sailors. Rheumatism is common to Soldiers as well as to Sailors. Coachmen are subject to disease for waiting out in the Cold for their Masters. Weavers are particularly subject to disease, as Dyspepsia, Hypochondriasis, Hysteria, Costiveness &c. The posture of Shoemakers & Tailors invites to disease. Bakers for their living in damp Cellars, & for their being exposed to the dust of flour are subject to Pulmonary diseases &c. Studious men are subject to Headache, Dyspepsia &c. hence this last has been called Morbus Studiorum. Judges are subject to Calculus for the long retention of their urine. Clergymen to Dyspepsia Gravel and Consumption. Lawyers & Physicians are less subject to the diseases peculiar to the other classes of men, in



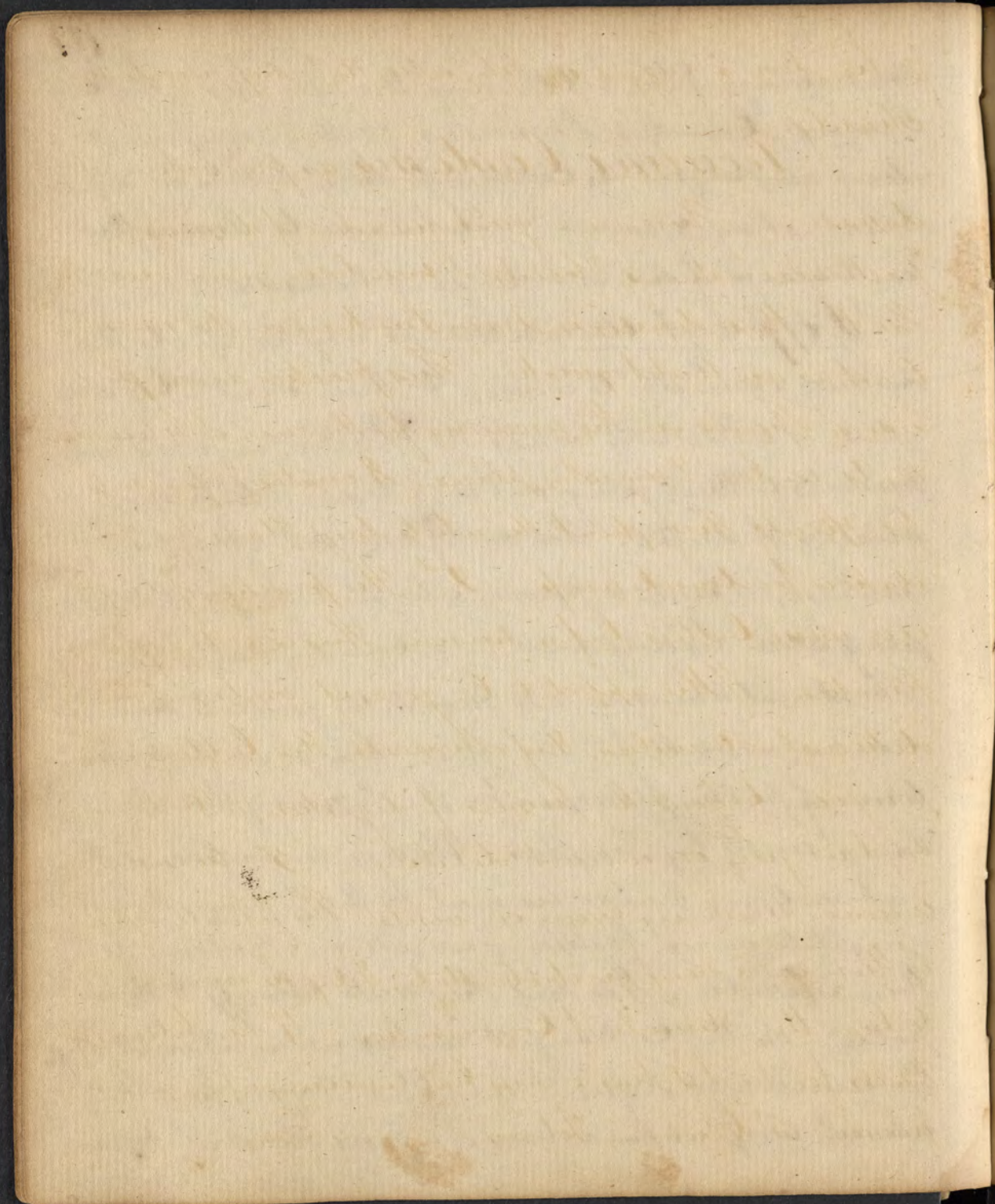


consequence of their blending the exercises of the Body & mind. Country Physicians for their excessive riding are subject to Costiveness, Piles, Fistula in ano - Rheumatism, Gravel &c. I refer you to Ramazzani on diseases of different kinds of tradesmen. —

Different Amusements are hurtful to the System, especially to women for their stand<sup>g</sup> before a glass, or under the hands of a Barber, in a cold room previous to their going out on a visit - Improper change of dress & The air of crowded assemblies, dancing, I knew a person who died of a fit of Apoplexy when leading down in a Country dance. —

Theatrical Amusements frequently generate nervous diseases, as well for the great change in the Atmosphere of public places, as for the Passions of the mind being roused by Tragedies. There is impression without motion, there is no vent for the feelings, they regurgitate on us, fashion prevents our yielding to their impulse. It is said they excite Charity & Sympathy - on the contrary, it makes us indifferent to the common distresses of Mankind & your fine Lady who w<sup>d</sup> weep at the sorrows of a fair Shore w<sup>d</sup> turn

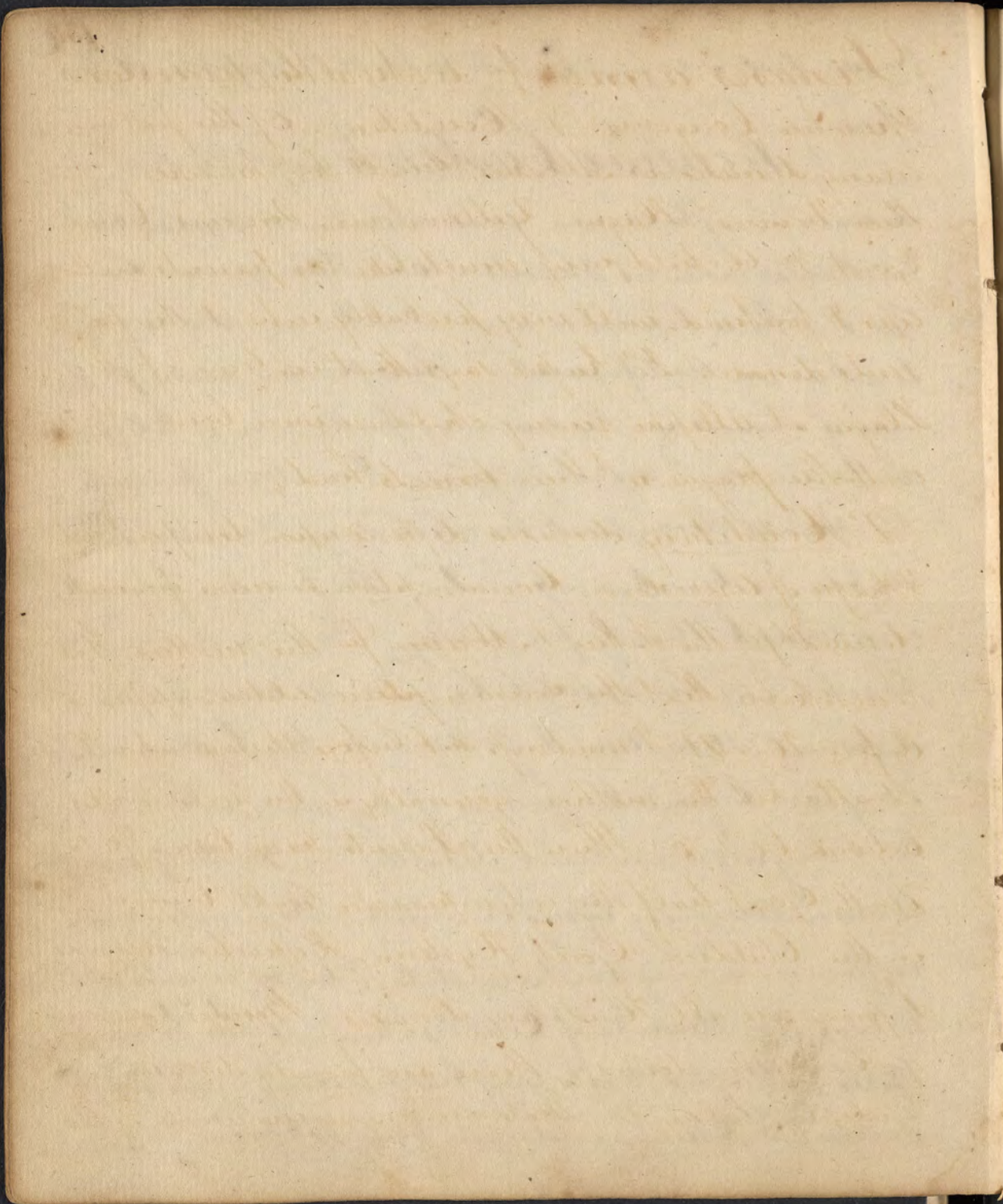




for her door a ragged wretch who sh<sup>d</sup> supplicate her charity.

Peculiar Customs as productive of disease. - There are a great number of diseases to which particular fashions & habits of men have given rise. The 1<sup>st</sup> of these sources is dramdrinking in the morning to act as an Antifogmatic. This practice arose from the use of Spirits in the morning for the cure of Intermittents in low & marshy places. It creates a fondness for Spirits throughout the whole day, & lays the foundation for drunkenness. 2<sup>d</sup> The practice of drinking wine bitters before dinner. This is a dangerous practice. If the appetite be good, it needs not an additional Stimulus, & if otherwise, the bitters creating one beyond the powers of digestion, will do harm by bringing on indirect debility. 3<sup>d</sup> The custom of women receiving lying in visits. The female system is then in a very irritable state, & by no means able to bear the Stimuli of Conversation. 4<sup>th</sup> The tolling of Bells for the dead, has a very bad tendency upon a sick person. 5<sup>th</sup> Chewing Tobacco - See my Essay. -







## Diseases arising from unhealthy Ancestors

These are Congenial & Hereditary. Of the first are many diseases as Measles, Small Pox, Jaundice, Lues Venerea, Plague, Yellow Fever, Bone eyes, Cancer, Gout &c. A child very much like his parents in the eyes & forehead, will very probably inherit the parents disease. Dr Kessel says that in time of the Plague at Aleppo many children were borne off with the plague w<sup>th</sup> their parents had.

2<sup>d</sup> Hereditary diseases depend upon Temperament & Shape of Ancestors. Consumption is more frequently derived from the Father & Maria from the mother. It is remarkable that the Consumption seldom appears before 20 or 21 & madness not before the age at w<sup>th</sup> it attacked the mother generally in the decline of life between 60 & 70. When the Parents have been afflicted with Gout half the intemperance will bring it on in the Children. Gout, Hysteria, Hypochondriasis & Leprosy are all Hereditary diseases. Besides Congenial & Hereditary diseases, there are Family diseases as Epilepsy, Palsy, &c. There are many instances of dis-



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cases skipping 1 or 2 generations & then shewing itself. You must not then confine yourself to the parents in searching for the source of diseases, but you will often have to go back several generations. As regards to the operations of Medicines in Hereditary complaints is necessary. What was good in the same case in the ancestors - for there are family medicines as well as family diseases. This is of such consequences, that I wish all those who have diseases communicable to children w<sup>d</sup> likewise leave with them, the remedies they had found useful. -

DISEASES arising from the improper use of Medicine. There have arisen chiefly from an injudicious confidence in false systems of medicine & wrong ideas in the operation of medicines. The False systems of medicine from Hippocrates to Brown have slain their thousands in the hands of weak Physicians. That Physician perhaps will have the most success in his practice who borrows a little from all the systems. Many hundreds have died in consequence of the publication of Dr Cheyne on regimen



The first of these is the fact that the  
population of the country has increased  
in a very rapid manner. This is due to  
the fact that the country is very fertile  
and the people are very industrious.  
The second fact is that the country is  
very rich in minerals. This is due to  
the fact that the country is very large  
and the people are very industrious.  
The third fact is that the country is  
very rich in agriculture. This is due to  
the fact that the country is very large  
and the people are very industrious.  
The fourth fact is that the country is  
very rich in commerce. This is due to  
the fact that the country is very large  
and the people are very industrious.  
The fifth fact is that the country is  
very rich in industry. This is due to  
the fact that the country is very large  
and the people are very industrious.  
The sixth fact is that the country is  
very rich in science. This is due to  
the fact that the country is very large  
and the people are very industrious.  
The seventh fact is that the country is  
very rich in art. This is due to the  
fact that the country is very large  
and the people are very industrious.  
The eighth fact is that the country is  
very rich in literature. This is due to  
the fact that the country is very large  
and the people are very industrious.  
The ninth fact is that the country is  
very rich in music. This is due to the  
fact that the country is very large  
and the people are very industrious.  
The tenth fact is that the country is  
very rich in dance. This is due to the  
fact that the country is very large  
and the people are very industrious.

by living on diet so low as not to be sufficient to support life - from taking Opium on the supposition that it was a sedative according to Dr Cullen Opium in large doses produces all the symptoms of Malignant fever. - From a confidence in the Asthenic diseases of Brown. But think not Gent: that I do not hold out for a theory in medicine. There have been & still are many false theories in medicine w<sup>h</sup> have done much harm. But we ought no more to reject entirely the truth of theory in medicine because of the different spurious ones; than we ought the true Religion because there are many false & injurious ones in the world. -

The injudicious confidence of the operations of Nature is also a cause of many deaths. This injudicious confidence is just as absurd as to believe in Witchcraft or Animal Electricity. One grand Argument in favour of the operations of Nature is that she is the only Physician of the Brute creation; but this proves too much - Brutes seldom recover from a slight disease, such as we could cure in many by the application of a few simple remedies. But in  
this



The too frequent use of glysters destroys the sensi=  
= bility of the lower bowels



This enlightened age, Nature seems to be the Logo-  
 da of many Physicians. If the regular bred Phy-  
 sicians have done harm by the means just men-  
 tioned, how much more must have been done by the

Quacks & Mountebanks. I once saw a di-  
 alogue between a sword & Run Hogthead, dispu-  
 ting which had done the most in destroying man.  
 Had a representative for the quacks stepped forwards  
 he w<sup>d</sup> have gained the palm with ease.

Diseases arising from the imprudent or  
 habitual use of Medicines with or without the  
 advice of a Physician.

1<sup>st</sup> Purges. These when given too often dispose  
 to Costiveness & thereby call oftener for their exhibition.  
 Different kinds of Purges do injury to different parts  
 of the system. Aloes dispose to Piles. Butter-milk  
 disposes to Vertigo, Palsy & Glaucous salts  
 to a debility of the intestines. Purges are often given  
 to prevent eruptions & but abstinence from ani-  
 mal food w<sup>d</sup> be much the best.

2<sup>d</sup> Emetics. The habitual use of these produ-



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ces Dyspepsia, also other Complaints of the Stomach, & by that means affects the general System; they produce ruptures of all kinds. —

3<sup>d</sup> Bitters induce indirect debility, Dyspepsia & dispose to drunkenness & Exercise is the best of all Tonics with a well regulated Diet. —

4<sup>th</sup> Nitre has produced Dyspepsia, a disposition to Colic &

5<sup>th</sup> B. used in the spring without disease induces Plethora, Apoplexy & Abstinence in the Spring is much to be preferred

6<sup>th</sup> Acidifiers habitually used injure the System

7<sup>th</sup> The imprudent use of the warm or Cold bath disposes to many diseases, but when the warm bath is used in the predisposing or forming state of Fevers, it is an excellent & valuable remedy. 8<sup>th</sup> Pediluvium when indiscriminately used as often does harm as good, in predisposition to disease, it has been of immense service, but when morbi. excitent<sup>t</sup> prevails, it produces delirium, & increases every symptom. A Pint of wine will do as little harm



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when the disease is formed as Pediluvium

9<sup>th</sup> Diets & Drinks suggested only by false theories of medicine produce many diseases.

10<sup>th</sup> Exercise in excess is hurtful especially in Fevers.

11<sup>th</sup> Quack medicines of all kinds have swelled the bills of Mortality. Thus Godfrey's Cordial has destroyed many children. I have seen it once destroy a child in this city. Turbington's Balsam has produced inflammation in the bowels & even death. Even the so much famed Potland powder has done considerable mischief. Janner's Powder puked & purged to death Goldsmith & Howard. But sometimes medicines produce mischief in the end, when they appear to do neither good nor harm in the beginning, & that too in the hands of judicious Physicians. This arises from a peculiar Idiosyncrasy in certain constitutions. Hence Gent. you may see the impropriety of blaming your Brethren in medicine too hastily. —



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Sympathy & Antipathy as inducing disease. This Gent: is a difficult subject. That sympathy sh<sup>d</sup> exist in minds is easily imagined; but that it sh<sup>d</sup> exist between bodies is not easily imagined. The diseases of Sympathy in Bodies seem accountable for upon the consideration that man is an imitative animal. This principle of imitation, is a deep seated principle in the minds of most of the human race. It is to this that I refer yawning & gaping w<sup>h</sup> are so infectious in large assemblies. To this likewise I refer the sore eyes w<sup>h</sup> sometimes arise from viewing those that are sore. Even convulsions have been communicated by sympathy also Muttering - the jerks as they are called &c.

But how shall we account for that intuitive evidence w<sup>h</sup> some people discover in finding out events to w<sup>h</sup> they are entire strangers as to any external cause. Dr Johnson says that Lord Roscommon when a boy at school in France was suddenly when at play impressed with the Idea that his father was dead, who was then at the distance of more than 300 miles from him. True it was his father



x I knew an instance of this same kind of Antipathy  
in one of the bravest men in the American Army  
yet the sight of a Cat w<sup>d</sup> drive him f<sup>r</sup> the head of  
the Regiment - He died with this Catphobia -

All associations are the effect of visible or invisible  
motions

The associations of motions exist in the body  
1<sup>st</sup> By association of Ideas - 2<sup>d</sup> Without this aid

---



died at the time in w<sup>h</sup> the Idea struck him. —

Antipathy is often congenial, & acquired. Some men are born with an antipathy to water, as Peter the Great, while King James 6<sup>th</sup> was born with an Antipathy to a sword — Others to cats, dogs, rats &c. — I once heard of a man who could ever tell when there was a cat in the room without seeing or hearing it — This must be owing <sup>1<sup>st</sup></sup> to certain effluvia of the animal he hated — 2<sup>d</sup> from Association. — All these people are rendered liable to disease from their Antipathy w<sup>h</sup> other people are exempted from. For instance a person having an Antipathy to a cat will be excessively agitated & perhaps made sick by being confined in the same place with one, but this w<sup>h</sup> have no effect on an ordinary person. X

Diseases arising from the Association of Ideas & Motion. — Of the former it is well worth attending to. There is scarcely a disease in w<sup>h</sup> this association is not present. Of the latter they are numerous. 1<sup>st</sup> If a man accustom himself to make water just before going to bed, he will be



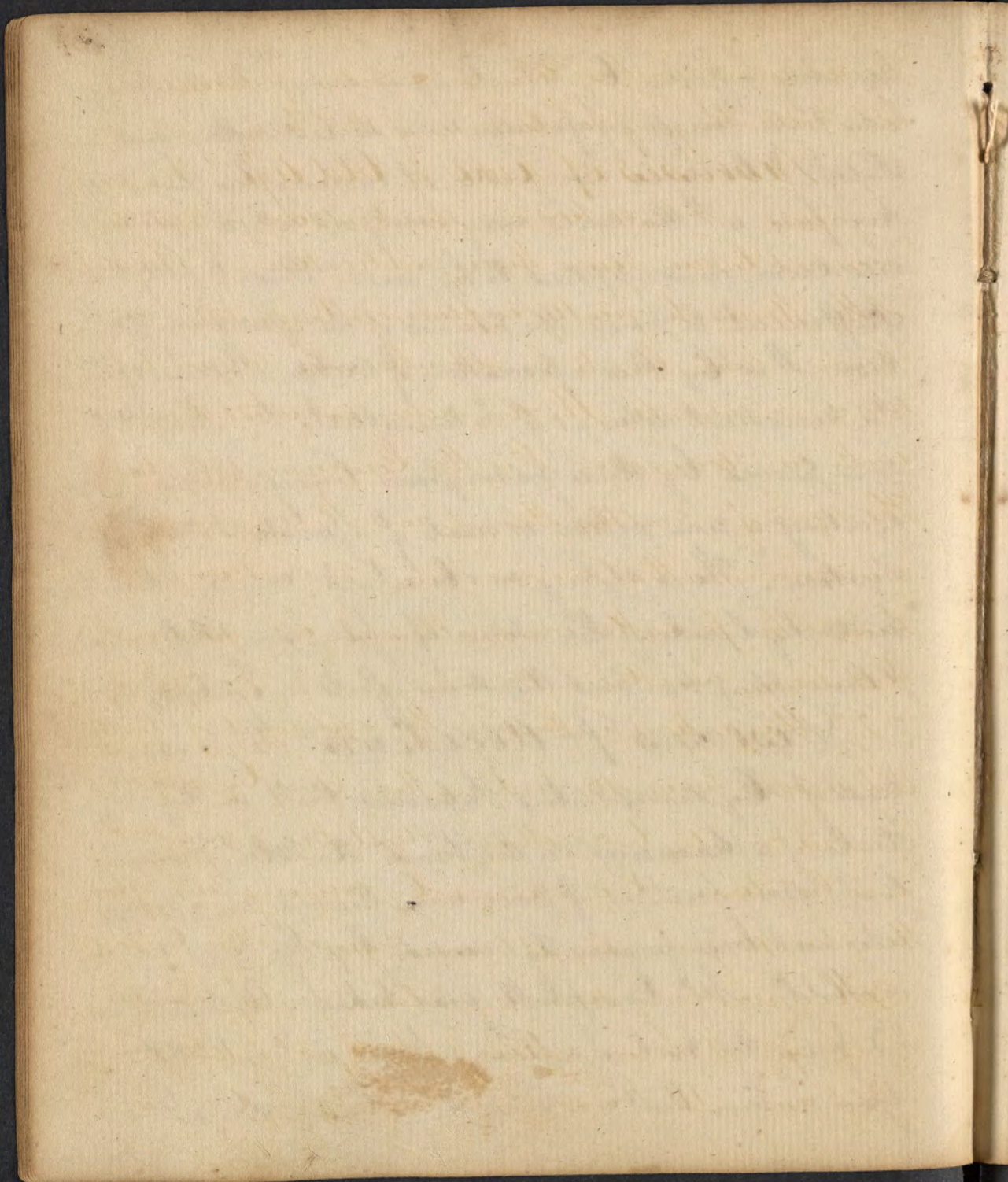
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sensibly affected by omitting it once. 2<sup>d</sup> A Lady who took snuff profusely, was at last taken with a Palsy, & became incapable of raising her hand to her face, w<sup>h</sup> she could very easily do when Sal. Cor-  
ne Curvi was applied to her nose. these 2 facts are sufficient to prove the powers of the association of motion. It is by this association of motion I account for the periodical returns of Intermittents &c. That it is so, is proved by these paroxysms being prevented by exciting a new action or mode of association in the system. Thus riding on Horseback cures Intermittents by breaking the chain of association, Salivation & travelling has had the same effects in Epilepsy.

Diseases from Accidents. I once saw a case of Hydrocephalus Internus bro't on by a stroke of a hammer on the head 18 Mo<sup>s</sup> previous to it. And another of pain over the eye in a man who had been frequently raised by the head when a child. Mr Campbell was taken Maniacal at 23 from the kick of a horse w<sup>h</sup> he rec<sup>d</sup> at 15. You see here that we have to go back, days, mo<sup>s</sup>







4 even years for the remote causes of disease. —  
See Bell's Surgery for diseases of this kind. —

Diseases of Time or Old Age. See my  
Inquiries. I shall however mention such facts as have  
occurred to me since their publication. 1<sup>st</sup> The state  
of the Stomach greatly influences Longevity. I never  
knew a man live to be old who was subject to the  
stomach complaints. W. sh<sup>d</sup> never eat what disagrees  
with our stomachs. It is the Conscience of the body.  
The signs of a healthy Stomach are 1<sup>st</sup> An appetite, &  
an ignorance that we have one. 2<sup>d</sup> That we hear no  
more of the food after we swallow it i.e. no signs of  
flatulency, heartburn &c.

2<sup>d</sup> Migration influences the approach of death.  
Old persons frequently prolong their lives by migrating  
from one country to another situated in a more south-  
ern latitude. Europeans by coming here after  
they are 40, generally add several years to their lives.

3 However long some people live, few of them die  
of old age. It is computed that 78 out of 1000 die  
of old age. 4<sup>th</sup> It is computed that only 6 out of



The cartilaginous state of the cranium disposes  
them to diseases

+ From the great irritability of the stomach and  
bowels



100 reach 60 years - 5<sup>th</sup> More women live to be old than men, but more men to be very old than women.

## Predisposing Causes of Disease.

These are either Natural or Artificial. The Natural occur in different ages & conditions of the system as 1<sup>st</sup> Infancy. These arise from the disproportion of the head, & consequently the greater determination of blood to that part - Hence eruptions behind the ears - Tinea capitis, apoplexy, Hydrocephalus & Infants have also less sensibility, but more irritability than adults - hence they are more disposed to convulsive diseases of the bowels & stomach & Dentition not only produces painful & swelled gums, convulsions & fretfulness, & but I have seen it produce swellings of the inguinal glands & Gonorrhoea. Worms, tenderness of the skin & pappi & all become the source of disease in infants. It is computed that half the infants die under 7 but more certainly ten years.

2<sup>nd</sup> Childhood & Puerility. The diseases of infants are nearly applicable here, irritability still



Children are less subjects to stomach complaints  
than infants but more disposed to Croup

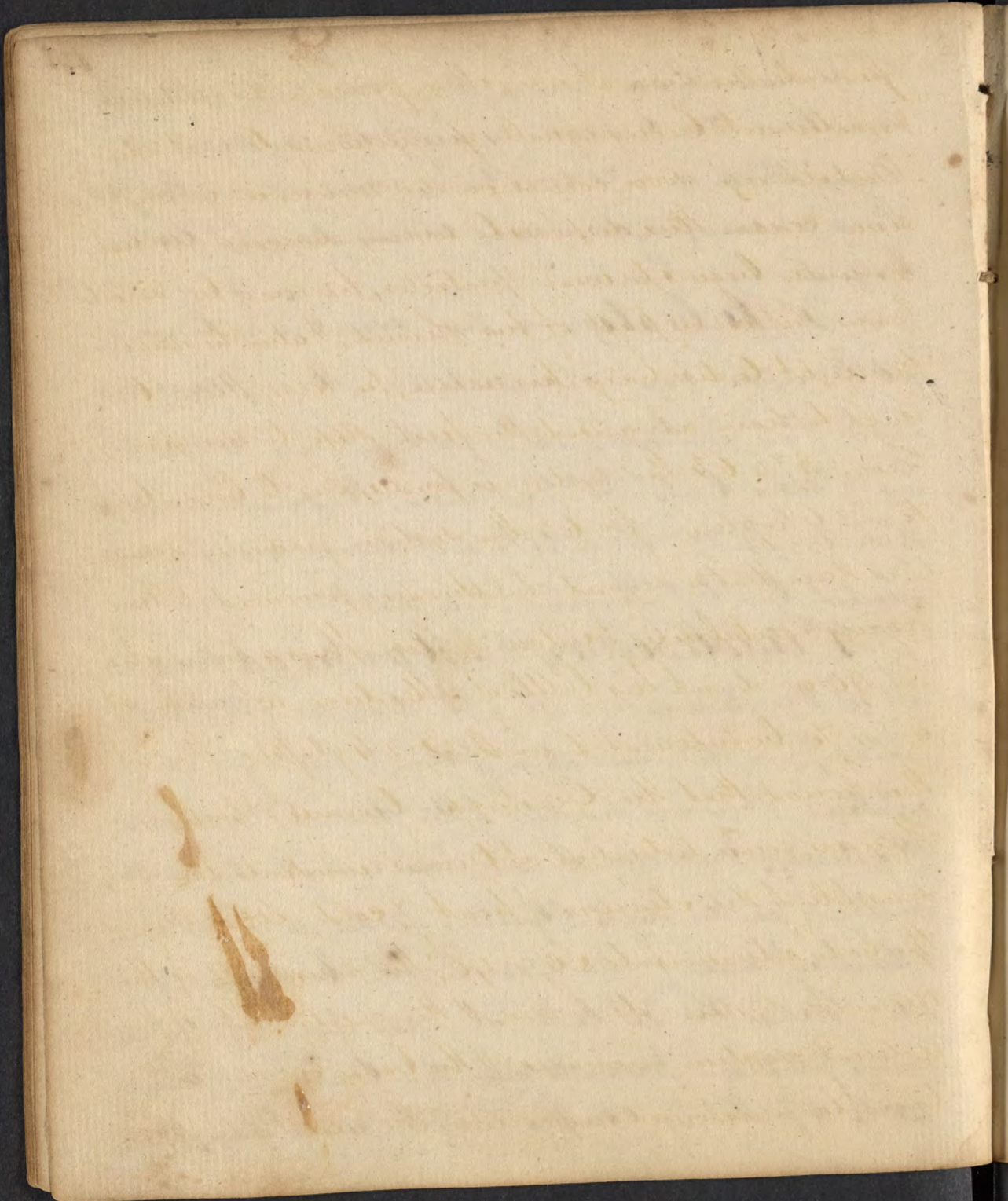


predominates over sensibility. One half of the children born, die before the age of puberty, more die in warm than in cold countries; more among the poor than among people in easy circumstances. More Boys die than Girls.

3<sup>d</sup> Puberty. In this sensibility begins to get the upper hand of irritability. Here febrile diseases of an inflammatory nature begin to take place, as Phthis, Catarrh, Dyspepsia, Hypochondriasis, Hemorrhages &c. Most of these diseases may be prevented by U. Turgid & Low diet.

4<sup>th</sup> Adolescence & Manhood takes place at 18 & continues till 36. The diseases of this age arise from a determination of blood to the organs of generation. They are diseases of the Stomach, Dyspepsia, Hysteria, Hypochondriasis, Pain in the limbs & joints, swelling in the Neck & Groin, giddiness in the head, & those w<sup>h</sup> arise from the exercise of the Venereal appetite. From the 36<sup>th</sup> to the 46<sup>th</sup> year of our life the venous plethoria prevails over the Arterial. From 40 to 57 there is better health more happiness







fewer deaths than at any other period. The excitability & excitement being equally proportioned to each other. But old age soon comes on the menses in women now cease. This disposes to many diseases. As soon as man begins to wear Spectacles, he may be said to have put on a part of his shroud, & when he rises in the night to discharge his urine, he may then be said to have advanced the first step to his grave. From 57 to 63 the system is predisposed to Colic, Vertigo & Apoplexy - for 63 the system gradually decays - it is then that a second childhood is produced, & there again excitability predominates. Thus a man who at 40 w<sup>d</sup> drink his bottle of Madeira, w<sup>d</sup> when at 60 or 70 be intoxicated with 3 or 4 glasses. It is at this period that the Grasshopper becomes a Cuckoo. They are more disturbed at trivial incidents, & are more sensible of the changes of heat & cold. After this, as the body advances to 80 or 90, the sensibility of the nervous system decreases, & the excitability of the arterial system increases, & the body is very liable to inflammatory complaints - the excitability of the



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whole body seems absorbed by the Arteries. Drs  
 Chovent & Franklin died of an acute inflammato-  
 ry disease between 80 & 90. The fluids of old peo-  
 ple become acid by age; as the tears, urine, gastric  
 juice, mucus of the nose &c. Hence trifling sores often  
 terminate in Cancers at this time of life, & Bruises  
 end in Mortification. Here muscular weakness  
 also attends. Hence the shaking of the knees head & hands

The diseases of Old People are Chronic & Acute.

The former attacks 1<sup>st</sup> The Blood vessels. 2<sup>d</sup> Nervous. 3<sup>d</sup>  
 The Muscular system 4<sup>th</sup> The Brain 5<sup>th</sup> The Alimen-  
 tary Canal. Some old people take a pride in shewing  
 their strength by standing & exposing themselves to cold.  
 By this they not only often suffer sickness but even  
 death. Few people die of old age they are frequently  
 said to die of old age, but when this is the case they  
 leave the world without pain; & death is nothing  
 more than a sound sleep. Dr Priestly told me  
 that his father died of extreme old age alone. He  
 was sitting in his arm chair surrounded by  
 his family, & the last words he uttered were that







he felt no pain whatever" & with these words breathed his last.

Conditions of the system in single & married life as predisposing to disease. -

Married people are generally of longer life than single. Single people are more subject to Hysteria & Women are disposed to disease from disappointments in love. Men are often diseased after marrying, but this is not the case with women - *Ceteris Paribus* - a greater proportion of single men & women die in a given time than married

Barrenness is often a source of disease. I once knew a barren lady who upon seeing a pregnant beggar said - "I would be that woman with all her rage if at the same time I could be with child"

Bachelors live a *Hypochondriac* life. It has been said that a bachelors life is a good breakfast, tolerable dinner, but a very bad supper. - Pregnant women are subject to acute diseases. The Consumption is suspended during pregnancy, because the inflammation of the Uterus is so great as to take the determination from the Lungs, but when the Uterus is relieved of its distention, many



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Other diseases may arise from the abstraction of its former Stimuli. Pregnancy predisposes to Costiveness, Vertigo, Mania &c. Suckling children to Consumption & a suppression of milk to cancers tumours &c. There w<sup>d</sup> be few Cancerous Uteri if V<sup>f</sup> were more used about this time of life. Some diseases are apt to produce abortion, as Influenza even when moderate. while the small pox & others of a more powerful nature do not. The menses cease to flow between 45 & 50. then the System becomes plethoric, & disease may be prevented by occasional V<sup>f</sup> - Purgings, low diet & exercise

Deformity in size, or the configuration of the whole or any particular part of the Body predispose to disease. People uncommonly large or small are apt to be short lived. Very tall men accord<sup>g</sup> to Dr Darwin seldom live over 25 or 27 years. - Dwarfs are generally short lived. The follow<sup>g</sup> is an exception to this - the dwarf that was bro't from Germany in the time of George IV<sup>th</sup> lived 80 years. Those who grow very fat before 40 are generally



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short lived. Large heads & short necks dispose to Apoplexy. Narrow chests to diseases of the Lungs. Montaigne says that deformity of particular parts dispose to an increase of the Venereal appetite. Women suffer less from deformity than men. Congenial weakness of a part, or of all the body dispose to disease. The present King of England is only a 7 Months child, but by his temperance has reigned many years. One disease badly cured disposes to another. Thus Pneumonia badly cured disposes to Consumption. Intermitents to Jaundice, Dropsy &c. Of all the parts of the body the Stomach, Liver & Spleen are the most susceptible of disease. —

I must not conclude this subject without taking some notice of the Cause & Phenomena of death. — Death follows the absence of Stimuli w<sup>h</sup> support life. These stimuli losing their effect by repetition, the excitement being smothered as it were by the excessive force of impressions &c. Morbid excitement just before death fixes in suc-



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ception on different parts of the Body. Falling  
upon the Brain it elevates the genius above its  
ordinaire exercise, gives occasionally more talents,  
as a talent for Poetry Music &c. Resuscitates dor-  
mant impressions, so that a language long since  
forgotten is spoken again, produces delirium,  
& a perversion of the Moral faculty even in pi-  
ous persons. Transferred to the Trachea & glottis  
Morb. is just before death produces a very  
strong voice, the Rattles &c. On the Stomach  
a wonderful appetite is excited just at the ap-  
proach of death. On the Senses rendering them  
more acute. On the Lungs producing thirst. On  
the Colon producing Diarrhoea. On the Kidneys  
suppression or an increase of urine. On the  
Symphatics - hence the effusion or absorption of  
water in Dropsy just before death. - On  
the Muscles it produces rigidity in them & Con-  
vulsions. To the Penis producing Priapism -  
To the Arteries producing activity of pulse at the  
Wrist. Morb. excited just before death



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whether fixed diffused or flying is frequently attended with great pain, w<sup>h</sup> pain is constant or attended with intermissions. Death for old age is never painful - Sometimes at death Morb. excit<sup>n</sup> becomes stationary at the point of pleasure, & the person feels pleasure while dying. Death is often attended with great fears of futurity, but sometimes even the most wicked are unconcerned about futurity. The coldness attending death generally begins in the toes & fingers, but sometimes in the wrists. There have been many disputes about the Ultimum Mo-  
riens I am of opinion that this depends very much on the nature of the disease the persons die of. The Stomach & bowels generally retain their irritability for some time after death - tho I am disposed to believe it continues for some time after the action of the Heart & Arteries - & respiration have ceased. Heat & Colour often fluctuates in the body for 2 or 3 days after death. A yellowness of the skin often takes place at the moment of death. The pupils of the eyes become less. - The Muscles generally speaking

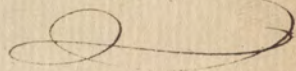


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are the *Ultimum Moriens*. -

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This Gentlemen finishes our Pathology, & I again repeat that there is but one disease, morb. excitement, - but one Predisposing cause - debility; & but one exciting cause - an irritant.





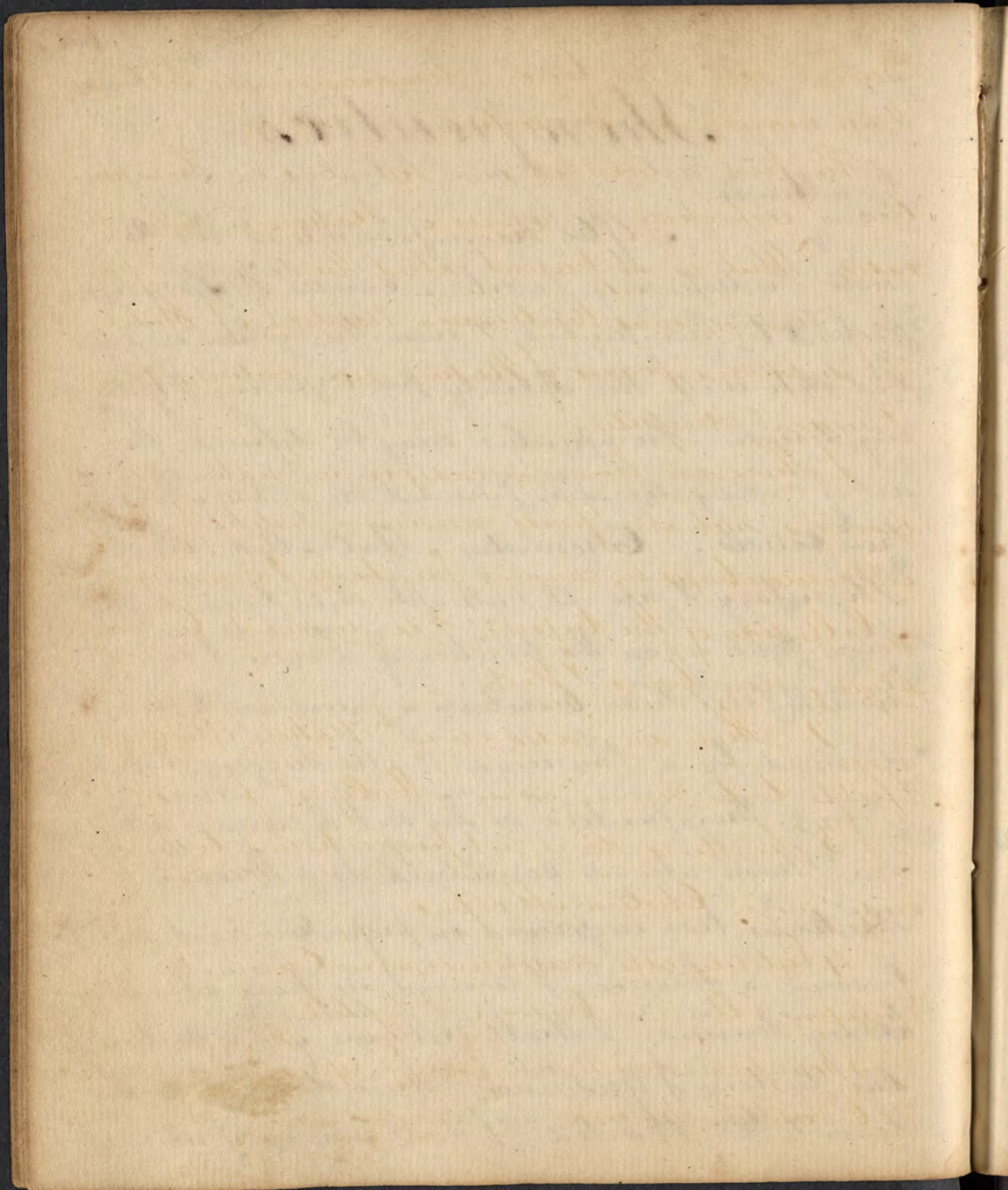


# Therapeutics

Gentlemen/

After having considered the Remote Predisposing & exciting causes of disease, we proceed to Therapeutics, I view the system in a morbid state with the debility predisposing & following disease. Therapeutics may be defined, the art of curing diseases, founded on a knowledge of their causes. Chemistry Nat: Med: Anatomy, Physiology & are all valuable only because they throw light upon the practice of Physic & cure of diseases. All these branches are necessary to be understood by a Physician & also Surgery & Midwifery. Therapeutics or the art of curing diseases I have always considered as a Science. Medicine has improved in proportion as it has become a Science, I received aid from other auxiliary sciences. I shall not give you a particular history of Medicines & their doses, that I leave to Dr Barton. I shall only give you a





general acct of the tools or medicines you are to use,  
& the manner of using them. —

The first article in our Syllabus on Therapeutics is respecting the powers of Nature in curing diseases. What is at present called the supposed powers of Nature was the *Anima Medica* of Stahl. The supposed powers of Nature arise entirely from Physical Necessity. —

1<sup>st</sup> There are however cases in w<sup>h</sup> Nature cures diseases, such as in Fevers causing a dislike for food; in Hemorrhages by causing faintness & consequently a collapse of the vessels, & in wounds by supplying new bones & flesh. —

2<sup>d</sup> There are cases in w<sup>h</sup> Nature is too weak & feeble to do service as in Malignant fevers.

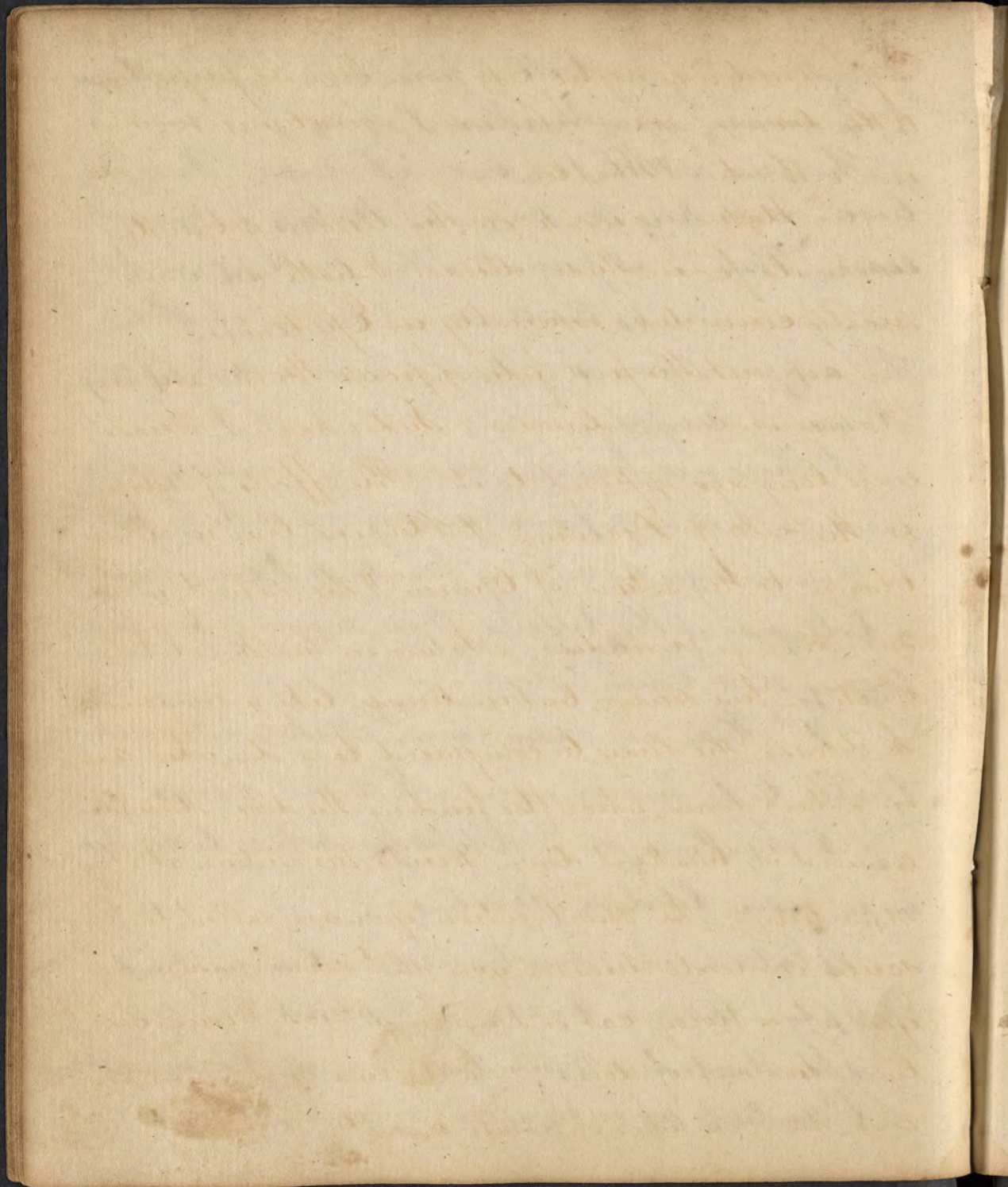
3<sup>d</sup> In others, she is not proportioned to the disease, as in Cholera Morbus. & Dysentery.

4<sup>th</sup> Entirely idle sometimes, as in Chronic Gout, Epilepsy, Mania, Cancer, & Syphilis. —

5<sup>th</sup> Sometimes does mischief, as in Dropsy & Consumption.

6<sup>th</sup> Sometimes refuses her aid, as in Aneurism & Chlorus.





7<sup>th</sup> Sometimes excites less pain than is proportioned to the disease, as in Tetanus, & sometimes more, as in Toothache & Whitlow.

8<sup>th</sup> Nature is weak in the diseases of domestic Animals for in these, disease & death are very nearly connected, especially in Epidemics.

I am not the first who opposed the operations of Nature in curing diseases. Sydenham & Meade were long ago opposed to it. The efforts of Nature in the cure of Diarrhoea & Pleurisy bear no resemblance to the action of Opium & the Lancet, w<sup>ch</sup> are our sovereign remedies. Nature in health, is like a man in his senses, but in disease like a madman. In disease she may be compared to a drunken man in a dark room, who after finding the door, stumbles against it, breaks it down & ends his existence at the same time. In short when you are called to prescribe in acute diseases, you sh<sup>d</sup> serve nature as you w<sup>d</sup> a noisy cat or Dog in a sick room. i.e. turn her out of doors. In the cure of diseases however, the operations of nature may be attended to, but



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not trusted. In Epidemics, if the bowels sh<sup>d</sup> be affected & show a tendency to carry off the disease by discharge, this operation sh<sup>d</sup> be assisted by the operation of purges. If hemorrhage from the nose attend the disease, V. s. will be proper. If boils or eruptions on the skin appear, substitute an artificial disease on the surface. If sweats accompany the disease, sudorifics sh<sup>d</sup> be administered. If sore throat or a disposition to cough attend, mercury sh<sup>d</sup> be administered to expel the morbid matter. You see then Gent. that Physicians sh<sup>d</sup> be the masters & not the servants of Nature as Hippocrates said. —

One outlet to a disease sh<sup>d</sup> not be solely depended upon, altho' it may be sufficient in a few very mild diseases, yet every avenue & outlet, thro' w<sup>ch</sup> it might possibly escape sh<sup>d</sup> be opened.

In Epidemics we ought to pay particular attention to the Climate & all local circumstances, to the season of the year, heat & cold, dryness & moisture. There are no successive Epidemics perfectly alike in different years, consequently the practice sh<sup>d</sup> be suited



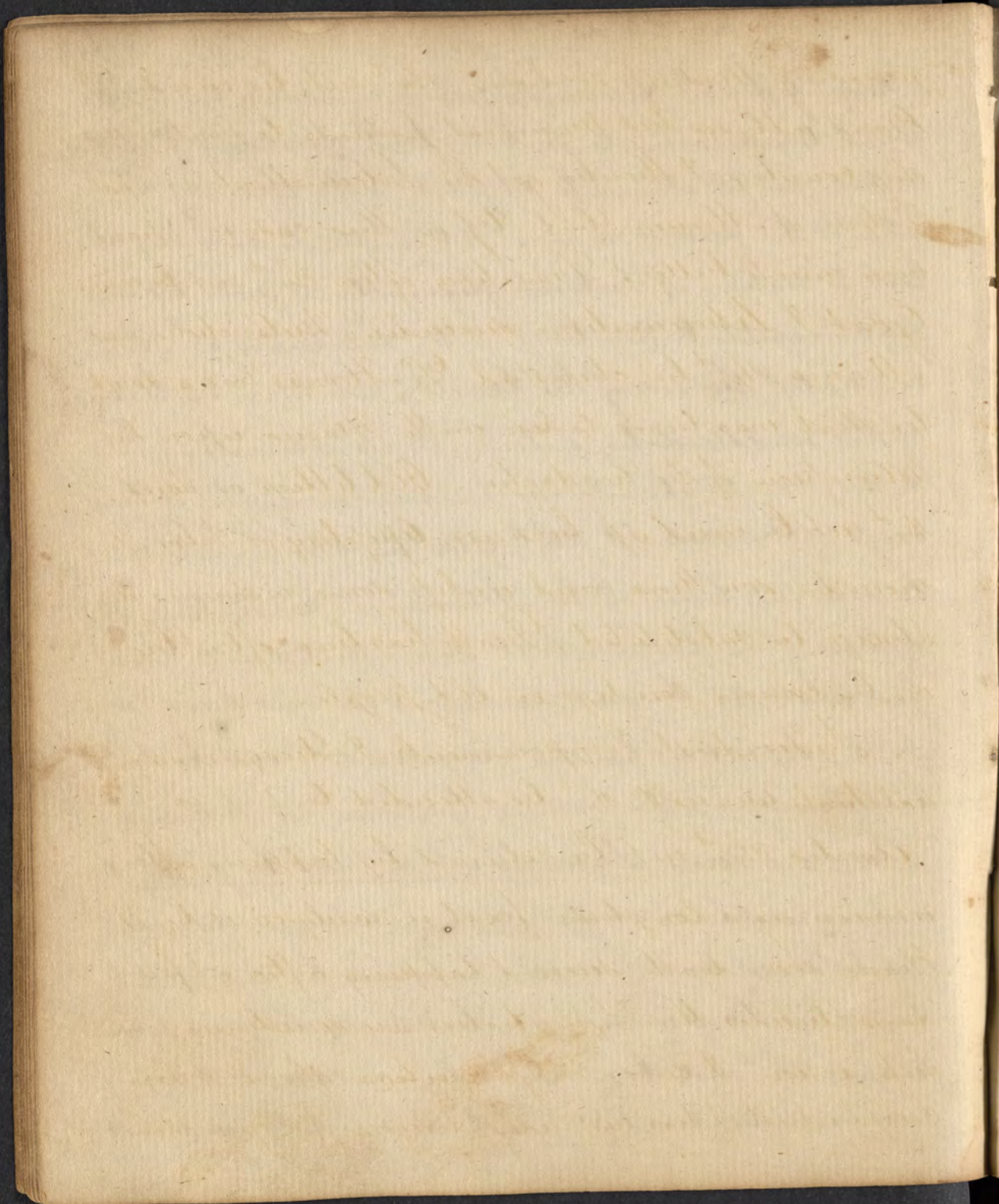
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to these different Circumstances, & regulated by the National Temperaments, habits, dress, customs &c. Attention ought always to be paid to the country from whence the persons came. Intermitents when they attack a native of Ireland frequently require Bleed and seldom yield to the Bark after he arrives in America, until the use of the Lancet; while in the Natives of the Middle States, intermitents generally yield to the Bark alone. The particular desires & longings of the patient sh<sup>d</sup> also be always attended to. In the time of the American Revolution, the Soldiers of the Eastern States were affected with Nostalgia, while the Virginians longed for salt bread & corn pork. Appetites however singular sh<sup>d</sup> not be neglected; nor are the forms of Government or Religion.

There are some Diseases w<sup>t</sup> sh<sup>d</sup> not be cured by art, as eruptions on the heads of children - these sh<sup>d</sup> not be cured unless some other mode be instituted to carry off the disease. - The Bloody Piles in old people sh<sup>d</sup> not be cured, unless we substitute some vicarious discharge for the body. - Intermittents







succeeding Madness or Palsy sh<sup>d</sup> not be cured. Dr. Bond advises his Maniacal patients to visit a marshy country, & thereby get the Intermittent as a palliative of Mania, but V<sup>f</sup> in this case w<sup>d</sup> have been much better. Diarrhoea often sh<sup>d</sup> not be cured. Gout & Rheumatism succeeding Melancholia and Mania sh<sup>d</sup> be cherished. Dr. Mouru had a daughter that was twice taken with Mania upon the retrocession of the Headache. Old Ulcers or Sores sh<sup>d</sup> not be cured up because Apoplexy or Palsy often succeed a sore thus cured, unless some vicarious discharge be substituted. Death has been often Crot on by curing sore legs in old people.

Individual Temperaments & Idiosyncrasy, & Habitual diseases & sh<sup>d</sup> be attended to

Arcites sh<sup>d</sup> not be relieved by tapping after remaining a long time, for it is rarely cured by it. I have seen death succeed tapping after a few days, besides the Lymphatics are sometimes roused into action, & cures. Gonorrhoea sh<sup>d</sup> not be cured when it has suspended diseases of a more violent



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action. Habitual Sweats from the feet sh<sup>d</sup> not be cured

Pain in some cases sh<sup>d</sup> not be cured, but these are very few — Pain becomes sometimes a necessary Stimulus from habit. Thus the extraction of a decayed & painful tooth has produced a fatal chronic disease.

Individual Temperaments & Idiosyncrasy & Habitual diseases & Habitual Remedies are not to be left out of consideration — Remember the Old & vulgar proverb — "What's one man's meat, is another man's poison" — We frequently lose & acquire new predispositions in the course of our lives.

In Chronic & Hereditary diseases you sh<sup>d</sup> look back as far as the 2<sup>d</sup> or 3<sup>d</sup> generation.

Whole families are sometimes carried off by diseases contracted by peculiar habits. Witness D'Grays family of Alexandria, all whose children have died with Consumpt<sup>n</sup> whilst both his wife & himself remain in good health. —

The age of men, the state of their Hemorrhoidal vessels & the Catamenia in women are not to be overlooked — Worms in children sh<sup>d</sup> be had in view in our prescriptions — The diseases of children are more successfully treated by Emetics, than those



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of Adults, & they will bear larger doses of Calomel under dentition than at any other period of life.

There are often recent causes of disease w<sup>ch</sup> Physicians sh<sup>d</sup> always have in view, as hard drinking, intemperance in eating, guilt, debt, love, envy mortification &c w<sup>ch</sup> sh<sup>d</sup> be sought for fr<sup>m</sup> their friends, acquaintances or enemies, & not fr<sup>m</sup> the patient himself. The Habit diet & Medicines of our Patient sh<sup>d</sup> be enquired into. A diet of vegetables, will not answer to recruit a Convalescent "Bon vivant" who has been nurtured on Roast beef & Plum pudding. Patients frequently deceive themselves with regard to the temperance. Case of a West Indian who laboured under some obstinate chronic complaint, upon being questioned about his mode of life, observed that he was very temperate. I asked him to explain what he meant by temperance "Why" says he "when I dine at home I never exceed a bottle of wine, & when I dine out, w<sup>ch</sup> is only twice a week, I generally bring away my 3 bottles with me. —



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Physicians must frequently look back months & even years for the causes of disease. The removal of the remote cause as Celsus says. (for these are his words *sublata causa, tollitur effectus*) will not cure the disease; for the Hydroceph. internus of children to w<sup>h</sup> worms predispose is not cured by the removal of the worms. In the treatment of diseases, hope, as far as consistent with truth & reason sh<sup>d</sup> be inspired into our patients; for it is the best vehicle of medicine, & the greatest circumspection is necessary that not even a doubt be expressed, for it defeats the intention of medicine. — The principle of faith sh<sup>d</sup> also be attended to — hence quacks so often succeed in the cure of diseases. —

The predisposing cause of all diseases is debility w<sup>h</sup> appears to be a Mechanical power in medicine. — There are perhaps no diseases w<sup>h</sup> do not appear to have alternate exacerbations & remissions, w<sup>h</sup> sometimes require different & even opposite remedies. In the first case sedatives are necessary. In remission debility is frequently present & re-



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gives the Administration of Cordials. In Chronic diseases, the patient sh<sup>d</sup> regularly take his medicine. It is frequently of very great importance to advise patients to continue the use of their medicines even when they feel the least want of them. Debility is not confined to days, weeks, nor to its forming state, it frequently succeeds disease; in w<sup>h</sup> case the patient sh<sup>d</sup> continue the medicine w<sup>h</sup> cured the disease, for months & even years. Disease may be compared to a garrison the Besiegers of w<sup>h</sup> sh<sup>d</sup> never be idle, unless there be a certainty of bringing on a capitulation by starving the people contained therein. —

Choice of Medicines. Formerly they were not to be valuable in proportion to their prices. I suppose that all diseases may be cured by few medicines, w<sup>h</sup> by being better known will be more certain in their effects. An advantage frequently arises fr<sup>m</sup> concealing the names of Medicines.

Respecting the Operations of Medicines, 2 opinions have prevailed — One is that they act



Cancer cured by corrosive sublimate and Hemlock  
by Dr Aikin when neither of these remedies would  
do it alone.

more certainly in a simple form while others contend for the advantages arising from combination. These opinions appear to be reasonable. The Bark & Opium &c are generally best when exhibited in a simple state - while Sugar enables the Stomach to retain medicines w<sup>h</sup> it w<sup>d</sup> otherwise reject. In this case a weak pleasurable sensation overcomes a powerful disagreeable one. Bark & Valerian combined will cure certain Headaches, w<sup>h</sup> when sepeparate w<sup>d</sup> avail nothing. In this case, it may act in one of these 2 ways. 1<sup>st</sup> By a change of their natures, & the formation of a Tertian Quind. or 2<sup>d</sup> One of the medicines composing the compound may excite the Stomach to the point, in w<sup>h</sup> the other can act. Opium & Alkali when combined will cure certain cases of Tetanus, yet when sepeparate avail nought. Dr Fordeyce contends for the advantages arising from compound medicines & says that Alum is a greater Astringent when combined with rose water than when alone. Dr Haarl also contends for the combinations of Medicines.



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I say that some medicines are strangers & enemies to the system, & sh<sup>d</sup> not be introduced into it without their guides or spies. Squills & Gum ammoniac when combined, form a better pectoral than either of them separately. —

Tartarized Antimony & Specac. form a better emetic than when separated. Capsicum & pepper give us heat & pain in the stomach, as they do when separate. Heat & Cleanliness sh<sup>d</sup> be greatly attended to in the preparations of our medicines. Writing the name of the Patient on the paper of medicine sh<sup>d</sup> always be done. Med: require their Condiments as well as Aliments.

It is of consequence to recollect the different effects of med: on adults & children. — for Sacch: Sat: will cure Epilepsy in Children but not in Adults.

Drawing the mind from itself, or in other words drawing off the attention of the patient from his disease is very beneficial. O' Cadwallader was very successful by this practice. — He once by his great humour prevented a man from committing sui-



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side. The tone of conversation sh<sup>d</sup> be suited to the state of the mind - hence truth is sometimes beneficial & sometimes prejudicial. Mentioning high priced medicines to persons who are unable to purchase them sh<sup>d</sup> always be avoided. It is our duty to attend to all the cases to w<sup>h</sup> we are called, whether they seem to be desperate or not. In prescribing a doubtful remedy for a desperate disease, we sh<sup>d</sup> do well to imitate Dr Cul-  
len, who once requested a Clergyman to advise of, when he was afraid to advise it himself.  
A medicine sh<sup>d</sup> never be laid aside until all the different preparations have been tried. Opium will frequently lie on the Stomach when Laud: will not. - Med: are frequently rejected for association, hence the necessity of sometimes disguising our Med: as the preparat<sup>n</sup> of Mure<sup>2</sup>.  
The best med: that can be used is sometimes no medicine at all. If unfortunately the patient is constantly wishing to take medicine feed him up with bread pills, or some other convenient article





on w<sup>h</sup> he sh<sup>d</sup> be encouraged to place confidence  
Physicians sh<sup>d</sup> never advise patients to make their  
wills, for they might as well pass sentence of death  
upon them; but they sh<sup>d</sup> always inform the  
friends of the patient concerning his danger,  
that they may be prepared.

Concerning the operations of Medicines there  
is more fallacy in the Opinions of Physicians than  
on any other point. Dr Fordyce says, that the best  
effects of Antimony in fevers is to produce a Relax-  
ation of the skin, whilst Dr Cullen thinks that  
Nausea is of the greatest advantage. Since we re-  
ject empiricism, we must always prescribe for  
the symptoms of disease - As Consultations, like  
compound medicines, may be useful in some dis-  
eases they sh<sup>d</sup> always be resorted to

1<sup>st</sup> As Iron sharpens iron, so will the opinion  
of one Physician assist that of another

2<sup>d</sup> Novelty of 2 or more Physicians may inspire  
hope & even confidence in the Patient

3<sup>d</sup> Responsibility is divided between the con-



1<sup>st</sup> appears in brightness pleasure sense of  
appetite &c. -

selecting Physicians

Cases in w<sup>h</sup> a Consultation is Necessary.

1<sup>st</sup> In doubtful cases 2<sup>d</sup> In dangerous tho' not doubtful 3<sup>d</sup> In uncommon cases 4<sup>th</sup> In desperate cases 5<sup>th</sup> When new medicines are supposed to be proper 6<sup>th</sup> In cases where there will probably be an appeal to justice for the life of a patient sh<sup>d</sup> not depend upon the testimony of any one man, or at least a Physician would not be willing to bear testimony alone, when the life of a human being depended upon his opinion. In consultations choose Physicians whose principles are similar to y<sup>r</sup> own. Two modes of practice tho' each may do good when separate, yet when combined always do harm. We come now to

The Application of our Principles

1<sup>st</sup> The first effect of impressions on healthy excitement is to elevate it up to 60. on our scale, & produce preternatural excitement. Remedies, gentle & the Physic & in some instances &c.

2<sup>d</sup> Debility from action is produced by a



3<sup>d</sup> Remedies rest. gentle evacuations and stim=  
=ulants or both of these

longer application of impressions. The system is now at 40. If you abstract or add impressions the effect is the same, viz, debility. When debility precedes disease. The remedies are rest & gentle stimulants. These sh<sup>d</sup> vary accord<sup>g</sup> to the seat of it. Debility when it falls upon the Blood-vessels, requires different stimulus fr<sup>m</sup> what it does when it falls upon the Lymphatic system.

3<sup>d</sup> Depression, The system is now at 30. These states of the system are attended with accumulated excitability, if the impressions act suddenly,

4<sup>th</sup> Disease or Morb: excitent is produced by a still longer application of impressions; but if these impressions act gradually, both excitent & excitability are worn down, & no disease is produced.

5<sup>th</sup> Oppression or Suffocated excitent, The system is now at 20 —

6<sup>th</sup> Prostration — The excitability is now smothered or absorbed, & the system cannot react; new and different stimuli must now be used to rouse the latent excitability, w<sup>h</sup> is enveloped as it were &



7. Remedies. obstruents

will not emit the motions of life. —

7<sup>th</sup> Disorder —

8<sup>th</sup> Death —

When debility is suddenly induced, it is attended with accumulated excitability, & sh<sup>d</sup> be treated with low diet, rest & gentle medicine; but when debility is induced gradually, we must gently stimulate. Elevation shews itself by alacrity, wakefulness & an increase of appetite — Depression is followed by a tendency to disease sometimes, in this case depletion sh<sup>d</sup> be used, but when there appears to be no tendency to disease stimulants sh<sup>d</sup> be used. We must equalize excitement & divert it from vital parts by depletion & Stimulants. —

Medicines have been divided into Sedatives & Stimulants. — The first class viz: Sedatives act by abstracting & reducing morbid excitement — The second class act by equalizing excitement by creating a new action — by diverting it from parts more essential to life, to those which



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are not so much so, by rendering it natural,  
& to diffuse it equally.

Sedatives are divided into 1<sup>st</sup>  
Direct - 2<sup>o</sup> indirect - & 3<sup>o</sup> those w<sup>h</sup> obvi-  
ate the debility succeeding disease as the class  
of Tonics. - Those w<sup>h</sup> act directly by lessening  
the stimulus & abstracting morb. excitant are  
1<sup>st</sup> Bloodletting

2<sup>o</sup> Cold, applied either by air, water, or ice  
when the system is above 96, & when dry - use-  
ful in Muscular diseases Hysteria &c

3<sup>o</sup> Fear This reduces morb. excitant by abstrac-  
ting the stimulus of Courage - Fear may operate  
in curing Singultus by the abstraction of morb.  
ex: fr<sup>m</sup> the Diaphragm

4<sup>th</sup> Abstinence - This is of different grades 1<sup>st</sup>  
Refraining fr<sup>m</sup> fresh animal food - 2<sup>o</sup> fr<sup>m</sup> Poultry  
3<sup>o</sup> From salt meat - this is not so nourishing as  
fresh meat since so great a quantity of it cannot  
be taken - 4<sup>th</sup> fr<sup>m</sup> fish - 5<sup>th</sup> fr<sup>m</sup> eggs - 6<sup>th</sup> The less now



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various kinds of fish & the different kinds of shell fish - 7 Vegetables - 8 From milk & saccharine Matter - 9 From liquid aliments of all kinds - 10 Mucilaginous substances, Gum Arab: 11 Total abstinence. — Abstinence acts in 3 ways —

1<sup>st</sup> By lessening the fulness of the blood vessels & thus diminishing all the secretions - 2<sup>d</sup> By abstracting the stimulus of food - & 3<sup>d</sup> By creating, when great hunger is induced a new action & thereby diminishing morb. excitement —

The operation of abstinence is too slow in acute, & is only to be trusted in chronic cases; & in those cases of debility where it increases excitability & thereby leaves greater room for the action of Tonics.

The 3 follow<sup>g</sup> facts with respect to abstinence sh<sup>d</sup> not be forgotten - 1<sup>st</sup> The Indians abstain much from food previous to a battle, hence so few of their wounds prove fatal - 2<sup>d</sup> Animals fasting some time before their death are after death less predisposed to putrefaction - 3<sup>d</sup> We always bear fatigue after a vegetable diet or abstinence, better than we eat plentifully of Animal Food. —





5<sup>th</sup> Rest abstracts the Stimulus of Muscular Motion

6<sup>th</sup> Darkness abstracts the Stimulus of light

7<sup>th</sup> Silence - the Stimulus of sound -

The abstraction of excitement sh<sup>d</sup> always be performed in a gradual manner; hence the saying "Natura nihil in a per saltum". -

Here we will premise a few propositions

1<sup>st</sup> I believe there is an action of Specific Stimuli

2<sup>d</sup> That Stimuli act on the whole system thro' a particular medium - Here the Stomach, bowels mouth & skin is the great medium thro' w<sup>ch</sup> medicines act on the whole system - The Stomach possesses the greatest sympathy of any other part of the body. It may be compared to the regulator of a watch. -

3<sup>d</sup> There are medicines w<sup>ch</sup> act on sensibility, as Camphor Mustard &c. Some w<sup>ch</sup> act on irritability as Digitalis &c. & some w<sup>ch</sup> act on Calm as Opium & Bark. -

4<sup>th</sup> There are medicines w<sup>ch</sup> enter the blood, & are deprived of their virtues in their first passage thro' it



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5<sup>th</sup> There are some w<sup>h</sup> are deprived of their medicinal qualities by passing thro' the body

6<sup>th</sup> That the different parts of the system are capable of receiving more than one stimulus, & even such as are of opposite force at the same time

Those Sedatives w<sup>h</sup> act indirectly are such as open the bowels - these I will divide into 3 classes viz - 1<sup>st</sup> Laxant as Crystals of tartar, Nitre, Clysters, such as act by their quantity - Castor oil, Manna, vitriol with the different salts &c. 2<sup>d</sup> The Active as Rhubarb, Jalap, Calomel &c. & 3<sup>d</sup> Drastic Purges as Gamboge Scammony aloes &c. To these divisions fasting may be added -

Cathartics are indicated

1<sup>st</sup> By a distention of the Bowels with feces  
The first class sh<sup>d</sup> be used here

2<sup>d</sup> By Complaints of the Head - for this 1<sup>st</sup> class

3<sup>d</sup> In Congestion of any of the Viscera for this N<sup>o</sup> 1

4<sup>th</sup> In all cases in which the bowels are unable to perform their functions - here N<sup>o</sup> 3 or the



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drastic are necessary

5<sup>th</sup> In all diseases of the Liver, Spleen & for this N<sup>o</sup> 1 or 2

6<sup>th</sup> In all diseases of the skin, for these N<sup>o</sup> 1 or 2

7<sup>th</sup> In drops of the skin for the excitement of the Capillary vessels - for this N<sup>o</sup> 1 or 2 - In Ty. Fever of - 93 they never failed to produce sweat

8<sup>th</sup> In Plethora for this N<sup>o</sup> 2 They may act by carrying off the redundant Chyle & preventing the formation of Blood

9<sup>th</sup> In all dropical effusions attended with great Morb. action they are proper by lessening the excitement, & producing absorption - for this N<sup>o</sup> 2 or 3

10<sup>th</sup> In Obstructions of the Hemorrhoidal vessels for this N<sup>o</sup> 1 -

11- In obstinate Obstructions of the Bowels - for this N<sup>o</sup> 1, 2 or 3

Cathartics are also proper when the Stomach is irritated with bile -

In all febrile diseases when the pulse is above par they are useful - N<sup>o</sup> 1 & 2 most proper here





In Dysentery & Diarrhoea in its recent state they act in 2 ways - 1<sup>o</sup> By evacuating the morbid contents of the bowels - 2<sup>o</sup> By creating a new action.

Here it will be proper to remark that purgatives in a smaller quantity will not operate after a larger quantity has been used, & that a greater quantity sh<sup>d</sup> be given to have the same effect, if previously the system has been habituated to the same medicines. As an alterative they sh<sup>d</sup> be given in small doses so as to produce an Artificial Diarrhoea. When it is necessary to continue purges a great length of time they sh<sup>d</sup> be varied. No solid food sh<sup>d</sup> be taken during the operation of Purgatives; & they are not so certain in their operation if liquors be copiously given. The mild purgatives induce sweat more speedily than the drastic —

The follow<sup>g</sup> Rules sh<sup>d</sup> be observed

1<sup>st</sup> The drastic purges act best by a combination with the lenient - asenna with Manna Jalap - Cream Tart —



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2<sup>d</sup> After large doses w<sup>h</sup> have operated powerfully the intestines are so irritable that small doses will act.

Clysters act by their quantity & quality. They are proper 1<sup>st</sup> In those cases where the Stomach rejects purges 2<sup>d</sup> Aggravation of the Forces in the lower bowels as in pregnant women for the prep<sup>re</sup> of the Uterus or the Rectum. They have been happily compared by Dr. Rush to a short hand brush w<sup>h</sup> removes the soot fr<sup>om</sup> the lower part of the Chimney, while purges like a Chimney sweep scrape & sweep clean its whole extent.

Purgatives are Forbidden in the follow<sup>g</sup> cases  
1<sup>st</sup> In diseases of weak morb. excitem<sup>t</sup> 2<sup>d</sup> In the Typhus state of fevers 3<sup>d</sup> In hemorrhages of the Bowels 4<sup>th</sup> In the first stages of Colica Pictorum 5<sup>th</sup> In diseases of the Lungs

Emetics are divided into 4 classes viz  
The Prompt, Mild, Powerful & Nauseating

1<sup>st</sup> Those w<sup>h</sup> act promptly - as tickling the throat with a feather, putting the finger down the throat warm water, white Vitriol & —



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2. These w<sup>h</sup> act feebly but certainly, as Ipecac: & Quills

3<sup>d</sup> Those w<sup>h</sup> act forcibly on the Stomach as Anti-  
tim Tart. Turpith Mineral &c —

1<sup>st</sup> Those w<sup>h</sup> act by nauseating the Stomach, as digitalis & tobacco, w<sup>h</sup> last may excite vomiting by being moistened with Brandy & applied externally. —

Emetics are indicated

1<sup>st</sup> In cases of swallowing large doses of Opium & Arsenic In these cases the first class sh<sup>d</sup> be used. I have prevented death in 2 instances by these means.

2<sup>d</sup> In discharging bile, mucus or indigestible matters from the Stomach — Here the 2<sup>d</sup> class sh<sup>d</sup> be used

3<sup>d</sup> In a languid state of the Stomach — Here 2<sup>d</sup> Class

4<sup>th</sup> In Morbid diseases of the Head from its sympathizing with the Stomach — Here the 2<sup>o</sup> or 3<sup>o</sup> Class sh<sup>d</sup> be used

5<sup>th</sup> In tumors in remote parts of the Body as Buboes &c — Here the 2<sup>o</sup> or 3<sup>o</sup> Class are proper — They act here by exciting the absorbents —

7<sup>th</sup> In dropical effusions — Here the 2<sup>o</sup> or 3<sup>o</sup> Class

8<sup>th</sup> In an oppression of the lungs as in Catarrh Pulm: Consumpt: Cynanche Trachealis — here the



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2<sup>d</sup> Clasp is proper - but when the lungs are affected with disease - they sh<sup>d</sup> not be used

9<sup>th</sup> In dyspnea of the skin - here the 2<sup>d</sup> or 3<sup>d</sup> Clasp are proper, by promoting sweats

10<sup>th</sup> In the forming state of Malign<sup>t</sup> or Contagi-  
ous fevers - 2<sup>d</sup> & 3<sup>d</sup> Clasp proper here - they act  
in 2 ways - 1<sup>st</sup> By equalizing excitem<sup>t</sup> - & 2<sup>d</sup>  
by discharging the seeds of the disease

11<sup>th</sup> They are more powerful & effectual in the  
diseases of children than Adults. Children re-  
quire more powerful Emetics than adults, as  
their Stomachs are lined with mucus. -

12<sup>th</sup> They are useful in Diarrhoea & some cases  
of Dysentery. -

In the Exhibition of Emetics you must observe  
1<sup>st</sup> To give them in divided doses, that they may  
not operate too powerfully upon y<sup>r</sup> patients  
In the commencement of inflammatory fevers in  
Plethoric habits always precede Emetics by V. S.  
2<sup>d</sup> That as little water be given with them as  
possible when we want a prompt effect - No





drink whatever sh<sup>d</sup> be given until Nausea comes on, & then never more than a pint. or pint & 1/2. The less the quantity taken, the more certain & serviceable the Emetic. They sh<sup>d</sup> be exhibited often, particularly in Malignant sore throat to be effectual. They sometimes act by inducing a new action. — 3<sup>o</sup> That they operate more certainly & forcibly in the morning, the system, at that time, being pre-disposed to sickness. 4<sup>o</sup> Never suffer them to operate while the Patient is recumbent, because by this means we prevent Spasm. 5<sup>o</sup> That their operation is checked by Laud. or a spoonful of salt in a pint of water. —

### Emetics are Forbidden

1<sup>o</sup> In violent inflammations & Congestions of the Head & bowels. 2<sup>o</sup> In too feeble action of the system. 3<sup>o</sup> In highly inflammatory fevers. 4<sup>o</sup> In advanced stages of pregnancy. 5<sup>o</sup> In Ruptures of all kinds. 6<sup>o</sup> In low chronic fevers & general debility succeeding acute diseases. It is necessary to discriminate between the low & slow fevers



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In the former  $u^{\text{th}}$  is the true Typhus, emetics are very injurious. But in the slow, or Typhoid they are beneficial.

Diaphoretics increase the discharge of the vitiated humours thro' the pores of the skin & act either directly on the skin, or indirectly.

1<sup>st</sup> Those  $u^{\text{th}}$  act directly are Pediluvia, Baths of warm water, vapour bath, clay of the heat of the body, & a Zote applied to the body by covering the head with a blanket - These may be called external Sweats -

2<sup>d</sup> Those  $u^{\text{th}}$  act indirectly & produce their effects by increasing the action of the heart & arteries, are exercise to promote sweat, Cold water, this acts in a twofold way - 1<sup>st</sup> By reducing the immediate action of the Capillaries to the sweating point - 2<sup>d</sup> by the reaction of the skin when it is below this point. -

Diaphoretics act on the Capillary vessels indirectly thro' the medium of the Stomach.

1<sup>st</sup> By Nauseating as Antim. Tart. & 2<sup>d</sup> Without Nauseating as Nitre, eupatorium, Cold water &





when the capillary vessels are above the sweating point - these last act on the skin by means of continuous sympathy. Diaphoretics act 1<sup>st</sup> When the capillaries are above the sweating point, by diminishing the excitement directly - 2<sup>d</sup> When they are below it, by increasing it either directly or indirectly - 3<sup>d</sup> By their action being determined to the surface of the body, as dovers powder, vinegar, ardent Sp<sup>t</sup>s Eupatorium &c - 4<sup>th</sup> By the stimulus of distention produced by warm liquids of every kind - Each of these methods are necessary & are often indicated - 5<sup>th</sup> Purges frequently prove Diaphoretic by reducing the system to the sweat<sup>g</sup> Point.

They are indicated 1<sup>st</sup> To discharge diseases from the blood - the miasmata exciting fever often attempt to escape thro' the pores of the skin. I have heard of a young man in whom the Syphilis went off by the capillaries. The poison of Animals also escapes sometimes from the blood thro' the skin by means of Diaphoretics -

2<sup>d</sup> They are indicated when the symptoms are so mild as not to require the Lancet. —



x Mosely has advised their use in the Dysentery of  
Jamaica

3<sup>d</sup> In Centrifugal diseases, as Gout Rheumatism &c when they affect the limbs - Diseases are called Centrifugal, when they affect the extremities, Centripetal when they affect the body as Colic Dysentery &c

4<sup>th</sup> In dropical swellings when the symptoms are below the sweating point

5<sup>th</sup> In the forming state of some Fevers - debilitating drinks sh<sup>d</sup> be given to assist their operation, & the patient during its continuance sh<sup>d</sup> be permitted occasionally to eat to support his strength

6<sup>th</sup> In fevers in w<sup>h</sup> there is a disposition to sweat tho' excessive sweating is sometimes hurtful.

The follow<sup>g</sup> Rules sh<sup>d</sup> be observed -

1<sup>st</sup> Perspiration is most easily induced in bed - To excite it, flannel sh<sup>d</sup> be worn next the skin - more perspiration will be induced in 9 hours in bed than in 15 out of bed.

2<sup>d</sup> Subdivided meals because the Stomach being alternately full & empty is unfriendly to perspiration

3<sup>d</sup> Great attention is to be paid to the heat of the body because sweat cannot be induced with safety, when



*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

The Heat of the Body is above 100 of Fahrenheit.

5<sup>th</sup> Diaphoretics are to be regulated by the stage of the disease.

6<sup>th</sup> They sh<sup>d</sup> be suspended occasionally & used moderately least exhaustion sh<sup>d</sup> take place

7<sup>th</sup> Care sh<sup>d</sup> be taken to have the linen & bed clothes of the patient often changed; because sweating is sometimes checked by a stiff shirt.

8<sup>th</sup> It is common to give diluting drinks in cases of redundant fluids from redundant secretions. This practice is improper. But in cases of poison it ought to be done

9<sup>th</sup> Guard against cold & avoid purg<sup>s</sup> & blister<sup>s</sup> when you prescribe diaphoretics, unless the urgency of the case require it.

Diaphoretics are forbidden 1<sup>st</sup> In highly inflammatory cases 2<sup>nd</sup> In cases of weak Morb. excitent.

A gentle moisture on the skin in Typhus fever, or the Nador of the ancients is favourable but the Sudor is alarming. Sweats in the Hospital fever are generally fatal.

3<sup>rd</sup> When they weaken without relieving.



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Diuretics are med:<sup>s</sup> w<sup>h</sup> increase the urine & are 1<sup>st</sup> Cold air applied to the body when a little heated, going into a Cellar, climbing up stairs, hearing a stream of fluid running from a Cannel, Cold water applied to the body, abstinence, fear, onions applied to the pubes & Exercise.

These I shall call external diuretics - More successful among children because obstructions in them is never durable - Plunging a Boy, hard in cold water when asleep, will frequently make him wet his bed. During the Y. Fever, persons in its forming state were remarked to make an unusual quantity. Dr Rush supposes that Ascites & Diabetes arise generally from affections of the Liver. Diabetes is nothing but Ascites known on the Liver.

2<sup>d</sup> Diluting drinks, such as Melon seed tea white carrot seed tea, parsley tea. Dr Caldwell cured a patient of dropsy with the parsley tea after tapping had failed. This class I call Diluents.

3<sup>d</sup> Those w<sup>h</sup> act on the Kidnies by sympa-



1<sup>st</sup> In all cases where the system requires general depletion

They are forbidden in atonic Dropsy

Mercury acts in 2 ways. 1<sup>st</sup> as a revulsive and 2<sup>nd</sup> as a depletion

they with the Stomach, as Salt of Tartar & New:  
Salts Beg: Alkali &c

They are indicated where the Kidneys refuse  
to perform their office, & where they are suffocated  
with morb: action - In Dropsical swellings  
where the morb: Action is not very violent, Digi-  
talis & Iron are serviceable

They are Forbidden in all cases where there  
is an inflammat<sup>n</sup> of the Kidneys, & in every  
case in w<sup>t</sup> you w<sup>d</sup> not bleed. —

### Sialagogues are Evacuents & Revulsiues

Evacuents act. 1<sup>st</sup> by discharging fluids from  
parts contiguous to the Salivary glands such  
as tobacco, Angelica &c

2<sup>d</sup> By discharging fluids from the whole body  
in the form of Saliva - such as Mercury An-  
seric, Sacch: Sat. &c Mercury acts both as an  
evacuent & revulsive. It is one of the most pow-  
erful articles of the Mat: Med: yet its operation  
is disagreeable & loathsome - It has been said



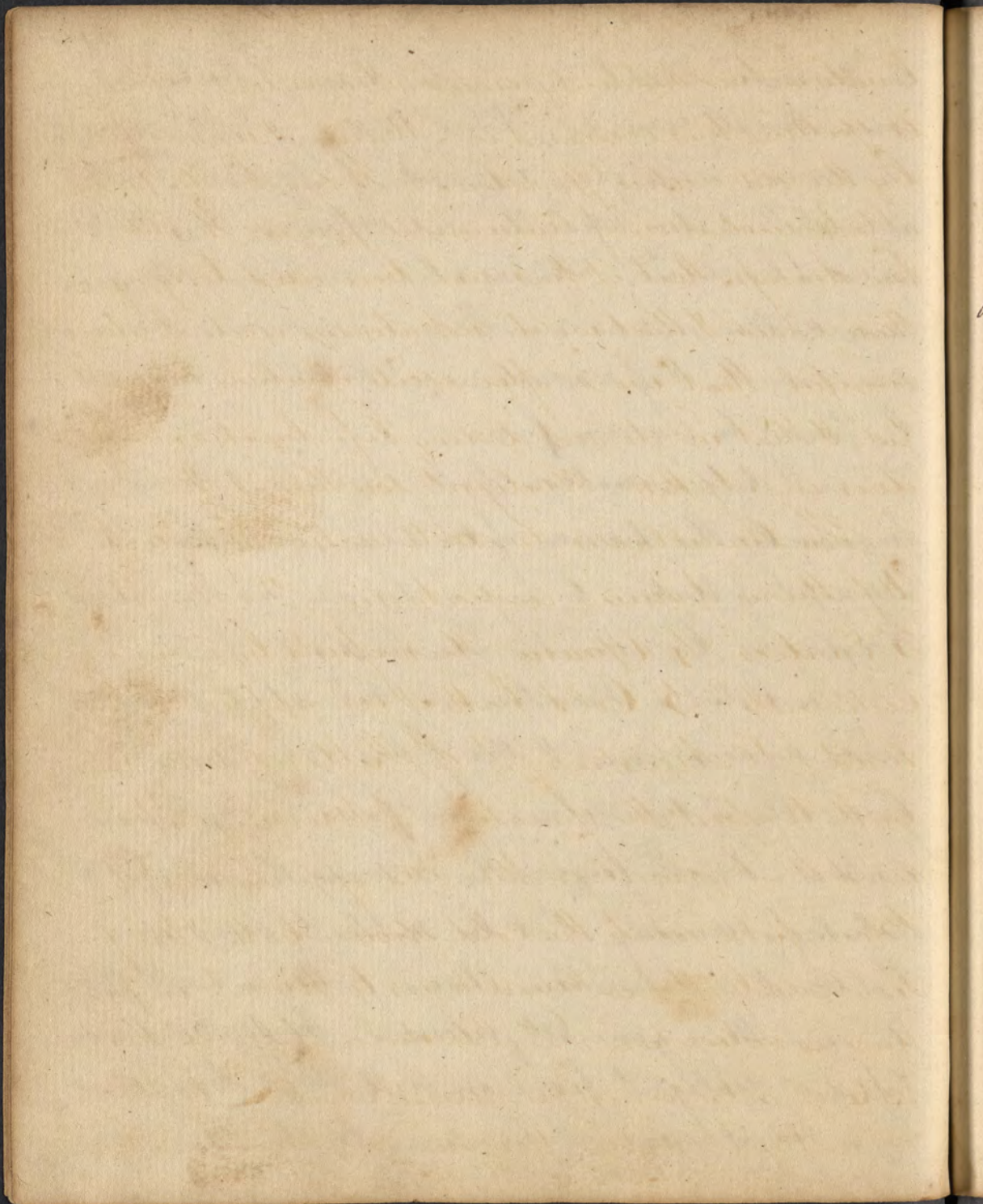
Mercury acts on producing a salivation  
at first by its stimulating the system and  
by imparting its oxygen to the salivary  
for which it has a great affinity.

that mere is not only a loathsome but also an unnatural remedy - But this is not the case, for mere is the first remedy of Nature, if we admit that sore mouths & Aphthae are the first diseases of Children - Hence when children sleep much, the gossips say they are sleeping for a sore mouth, & if examined at this time, they will be found to have a Fever. -

A determination to the mouth & throat is frequently the disease of Children, or rather the attempt of Nature to cure a disease, as Scarlatina Anginosa, Eryanache Trachealis &c

In Adults, spontaneous salivation sometimes accompanies Fever, & the *J. pox* sometimes, & is generally a symptom of a favourable termination. Death frequently succeeds this useful & salutary remedy, if it be suddenly suppressed. If a Cough & salivation attends patients with the *ty-Fever* they generally recover. Sydenham mentions a Malignant fever in 1670-1671 being cured by a spontaneous salivation. A spontaneous sa-

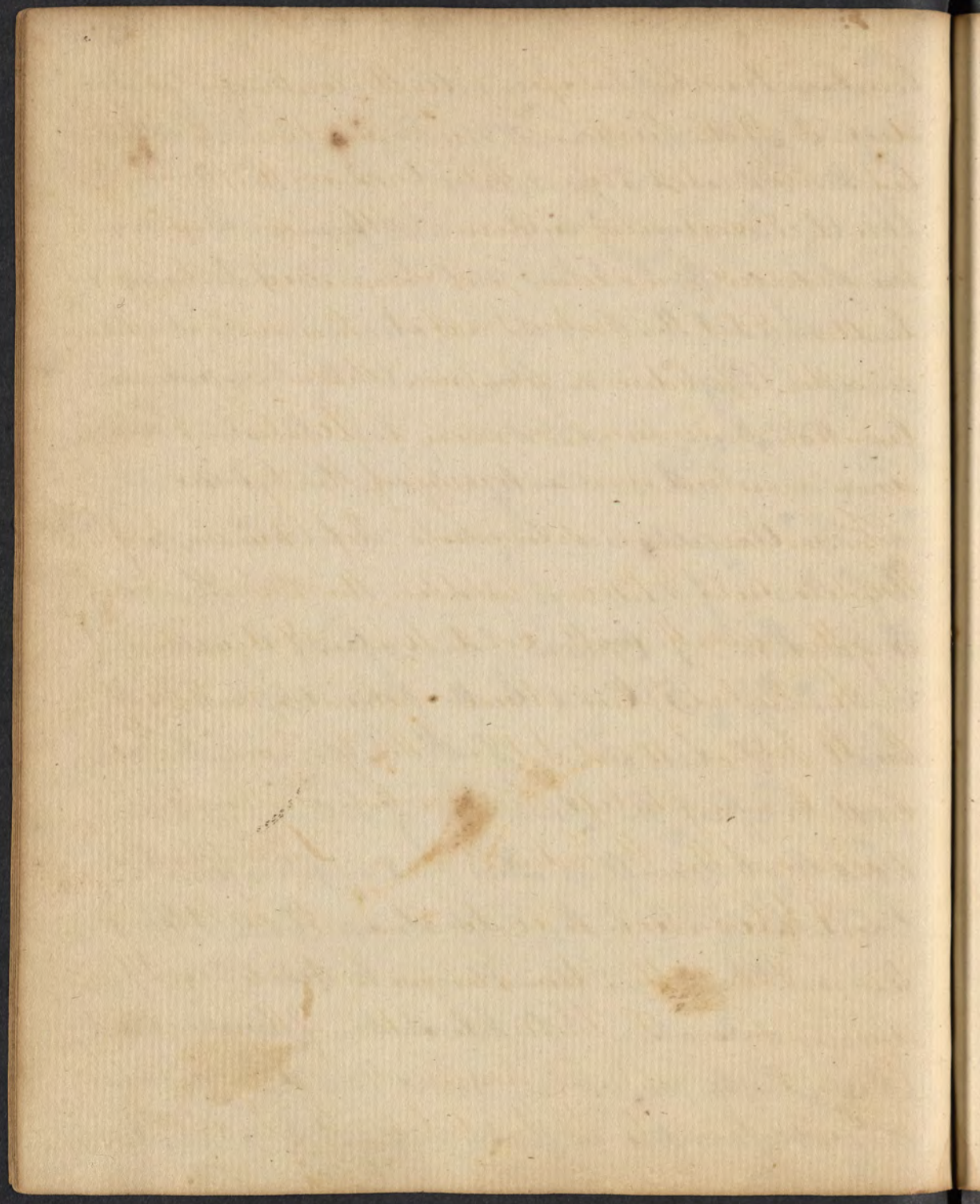




livation has suddenly cured Dysentery & Gout. A spitting has occurred in Mania, & was called by the old writers Sputatoria. It marks the favourable termination of Autumnal Fevers. It is therefore strange that it has not been used long ago in these cases, & that we do not always excite it when needful, that we so often excite it when not needful, & that we do not destroy life by it, as nature does in Aphtho-Malignant sore throat &c.

The Auxillaries to excite salivation are 1<sup>st</sup> Of this is of much importance - 2<sup>d</sup> Low diet - 3<sup>d</sup> Emetics - 4<sup>th</sup> Opium - this assists by inducing Costiveness - 5<sup>th</sup> Cold bath & ice applied to the head - Dr Armstrong of St Kitts used the cold bath to assist the operation of Mercury - I have used that as well as Mer cold applications. Dr Bloomfield used the Cold Shower Bath, & the partial cold bath as Auxillaries to Merc<sup>y</sup> in producing salivation. Dr Christolm tells us that Merc: acts soonest in moist weather 6<sup>th</sup> Merc: is greatly assisted in producing a salivation when





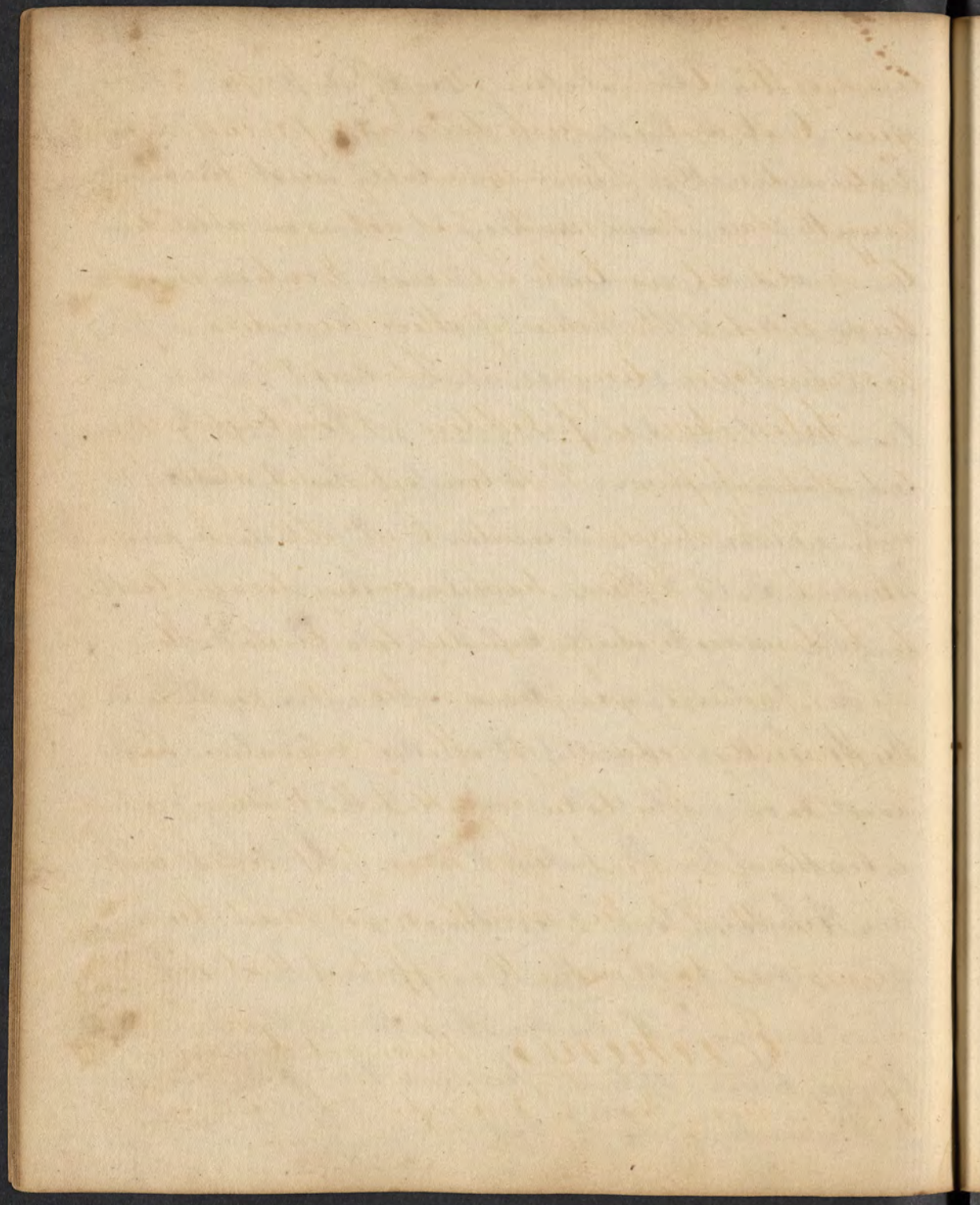
combined with Jalap - 7<sup>th</sup> With Antimonial powders. 8<sup>th</sup> With frictions of Merc: ointment - 9<sup>th</sup> Nitro. bed or Uneriated Merc: to be tried with friction, calomel, & corrosive sublim. When we wish to give Merc: secretly, we may put Calomel upon bread & butter, & let the patient eat it. It is not necessary in order to produce a revulsion that a profuse salivation be induced, or even a Ptyalism & in some cases not even a soreness of the Gums -

For restraining a salivation - U<sup>s</sup> of Opium, Purges, Blisters, Oils & Borax held in the mouth - washing the mouth with cold water, & diuretics

In Philadelphia Merc: salivates 1 out of 4. In the W<sup>st</sup> Indies 11 out of 12 in the Y. Fever. - This must be owing to less morbid action existing in the diseases of the W<sup>st</sup> Indies than in Philadelphia.

Salivation is indicated 1<sup>st</sup> In Malignant fevers, & such other fevers as are not remedied by other means - 2<sup>nd</sup> In Morbid action of the head, lungs, liver, spleen, kidneys &c. - 3<sup>rd</sup> In Diarrhoea & Dysentery - 4<sup>th</sup> In Syphilis - 5<sup>th</sup> In obstruc-





tions of the Viscera - here it is often proper not to give Calomel in such doses as to produce salivation directly - I have generally just made the mouth sore, thus making it act as an alterative  
 6<sup>th</sup> In old ulcers both external & internal w<sup>h</sup> have resisted the power of other Remedies - 7<sup>th</sup> In convulsive diseases, as Tetanus &c

Salivation is Forbidden 1<sup>st</sup> In highly excited States of Fever - 2<sup>nd</sup> In low exhausted States of fever - 3<sup>rd</sup> In children under 6 y<sup>r</sup>s old 4<sup>th</sup> In persons above 60 - 5<sup>th</sup> In those having many decayed teeth - 6<sup>th</sup> In diseases tending rapidly to a crisis. Merc: will never produce gangrene when the system is sufficiently reduced, or after a salivation has taken place. It is to be regretted that Merc: is such a loathsome Med: but man first sinned with his mouth, & to his mouth must med: be administered to remove the effects of that sin. -

Erichenes. These act by depleting from the nose, & are of 2 kinds - 1<sup>st</sup> Those w<sup>h</sup> de-



+ They are indicated in Tooth ache ear ache &c &c  
They sh<sup>d</sup> not be used when there is a great determination of blood to the head, as their operation will increase it.

Much has been said of Madder as a specific on the titerus but I do not believe anything of it

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plete for the nose & are of two kinds without pro-  
ducing sneezing - such as Sal. Ammoniac Tur-  
pentine Mineral &c 2<sup>d</sup> Those w<sup>h</sup> deplete for the  
Nose & produce sneezing as Tobacco &c x

Expectorants are such Med: as increase  
the secretion for the Trachea - They are 1<sup>st</sup> Demul-  
cents as flaxseed tea - Horse radish &c 2<sup>d</sup> Eme-  
tics or Nauseating Medicines as Squills &c 3<sup>d</sup> Volatile Alkali, Salts, smoke of Tar, bees wax, Re-  
sin &c Blisters act sometimes as expectorants  
for inverse sympathy

Expectorants are indicated in Pneumony, Catarrh  
Asthma, Pleurisy &c here the 2<sup>d</sup> & 3<sup>d</sup> Class sh<sup>d</sup> be  
used - Also in weak Morb: action of the Lungs  
here the 3<sup>d</sup> Class is required -

Emmenagogues in suppressed  
Menses sh<sup>d</sup> be administered accord<sup>g</sup> to the action  
of the system - There is no medicine w<sup>h</sup> has a spe-  
cific action on the uterus - This class of med:  
act by their stimulus imparted to the system  
by their long continuance - If great Morb ac-



Plasters act by discharging serum from the  
blood

tion exists. Of the 2<sup>d</sup> be used but in weak morbid action. Chalybeates I exercise the 2<sup>d</sup> be used. In this last case I have generally given Steel, which I believe fails only when given improperly. Aloes & Madder are scarcely worthy of notice as Emmenagogues.

## Blister

These act 1<sup>st</sup> Slowly as Cantharides & the Bark of certain trees - 2<sup>d</sup> Suddenly as Boiling water - & 3<sup>d</sup> Epispastics made of equal parts of Mustard & Canthar. - These in many cases are better than flies alone - as they will rise in 3 or 4 hours instead of 10 or 12 w<sup>h</sup> flies require - Boiling water to produce the effect the 2<sup>d</sup> be applied for 5 to 10 minutes. They are indicated - 1<sup>st</sup> in general diseases of weak morbid excitement - here the 1<sup>st</sup> Class sh<sup>d</sup> be used - 2<sup>d</sup> In local congestions of the head Cervels &c - here the 1<sup>st</sup> Class - 3<sup>d</sup> In sudden congestions here the 2<sup>d</sup> Class - In diseases of the head, Breast & joints - In diseases of the liver - In Malignant fevers when we are fearful of Gangrene, Bles -



x in general diseases, but in Local diseases they may be applied at any state of the Pulse -

It is preferable to apply them rather near ~~to~~ on the affected part as its extreme sensibility may perhaps elevate it above the blistering point. In chronic diseases we may apply half a dozen at the same time and thereby bring the whole system into action.

ters sh<sup>d</sup> be applied to the thighs shoulders, head & neck, & not on the extremities. - The Typhoid pulse is that wh<sup>ch</sup> demands the use of blisters - When they are applied with a pulse above Typhoid, Pus is discharged instead of serum - If below, no discharge at all, or Gangrene. -

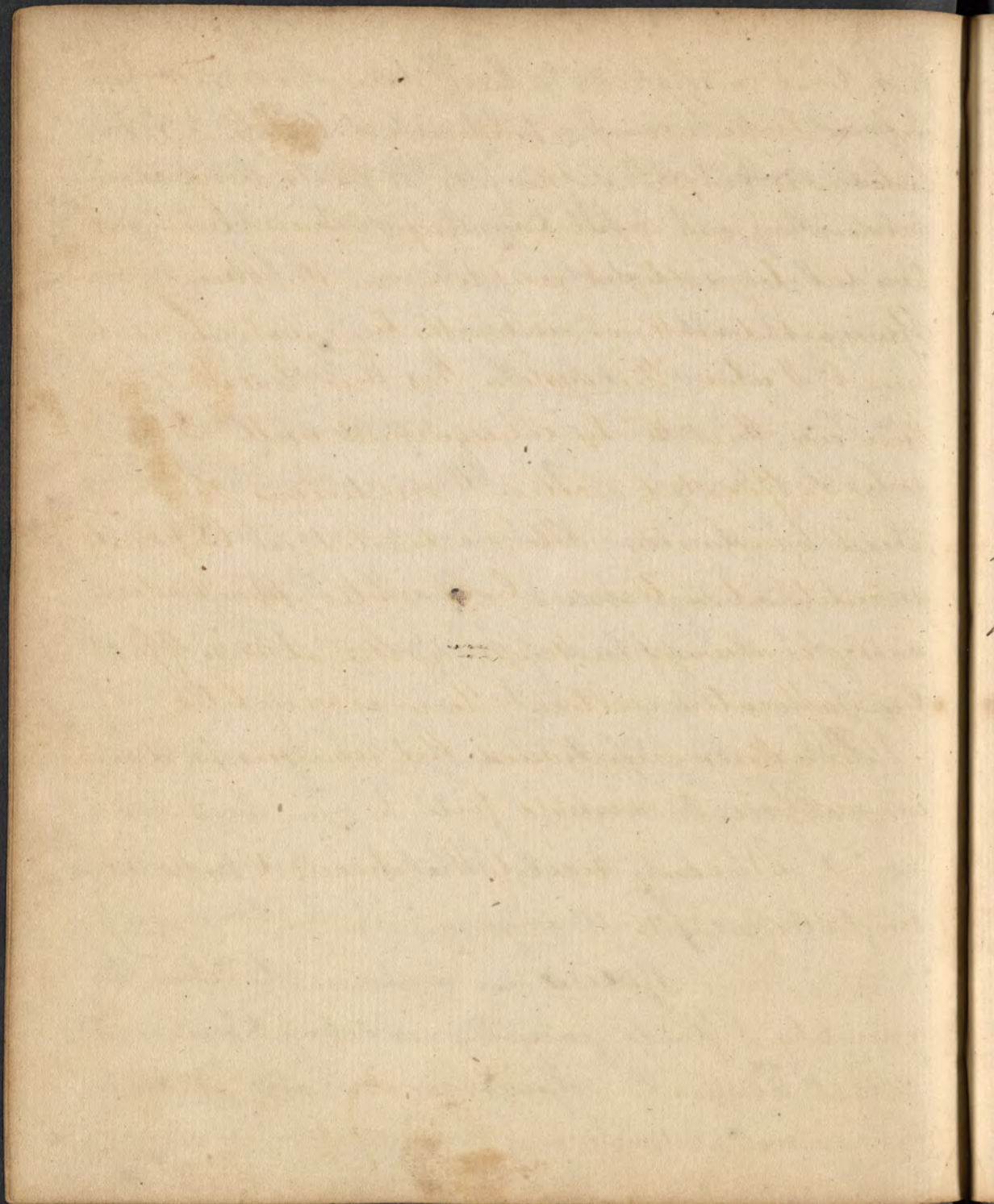
The follow<sup>g</sup> rules sh<sup>d</sup> be observed -

1<sup>st</sup> They sh<sup>d</sup> remain on until they produce a serous discharge - 2<sup>d</sup> When applied to the head they sh<sup>d</sup> remain 24 hours 3<sup>d</sup> As all blisters never discharge much after the 2<sup>d</sup> dressing, new ones sh<sup>d</sup> be applied if necessary - They deplete by sympathy. -

Blisters are forbidden - 1<sup>st</sup> In General diseases of great morb. excitement - 2<sup>d</sup> In very weak morb. 4: 3<sup>d</sup> In habits highly irritable & in persons liable to suffer from stranguy. 4, In Pregnancy

Issues are medicines to lessen the quantity of fluids gradually, as Aetours, Caustics, perpetual blisters &c - Issues are indicated 1<sup>st</sup> when the gradual abstraction of morb. excitement is required





2<sup>d</sup> In local congestions where danger arises for fal-  
lacy, or Pressure on parts essential to life - 3<sup>d</sup> In  
cutaneous eruptions of the face or parts necessary to  
motion - Gout & Pul: Consumpt<sup>n</sup> have been sus-  
pended by a slight eruption on the skin. —

Opium act directly, or indirectly by equalizing excite-  
ment, & when the system has been habituated to  
their use they sh<sup>d</sup> be relinquished with caution

In suffocated excitement medicines sh<sup>d</sup> be ap-  
plied gradually - blood extracted, in but small  
quantity at a time - Cold water applied exter-  
nally is always improper in the absence of heat -  
& in suffocated excitement there is very little. —

I have thus mentioned the remedies for disease  
in an open & sensible form -

We come next to the second Class -  
~~viz Stimulants~~



+ Additional Stimulants 1<sup>st</sup> Soporifics  
or those medicines which produce profound  
sleep - they should be used in low fevers.

2<sup>d</sup> Medicines calculated to prevent sleep  
and increase wakefulness - they are used  
in high arterial action and likewise in  
the decline of fevers. Remedies keeping the  
patient in an erect posture. Conversation  
strong tea and coffee. small and frequent  
doses of Lactucarium. -

3<sup>d</sup> Medicines intended to check vomiting  
1<sup>st</sup> lying in bed in a dark room. Carbonic acid  
gas in colder waters. lime water - acids of all  
kinds. Blisters.



# Stimulants - These I shall

divide into *I<sup>st</sup> Stimulants* properly so called, or those w<sup>h</sup> remove morb. action by exciting a stronger & less diseased action in the affected part, or in some other part of the body; or w<sup>h</sup> remove morb. action in one part of the body by exciting in another part less essential to life + *II<sup>d</sup> Tonics* or other medicines w<sup>h</sup> prevent the recurrence of disease, by removing predisposing debility. Both of these act by converting excitability into excitement when they cure without abstracting any of the fluids of the body.

Wine & Opium are diffusible stimuli; but all stimuli are more or less difficult in their action on the whole system. Here I exclude those sedatives w<sup>h</sup> destroy irritability or morbid action by force such as *Ceruse acetata Digitalis & Mianina*, w<sup>h</sup> resemble more the breaking down a door to get into a house than simply turning the key. But depletion sh<sup>d</sup> be used in most cases in preference to such remedies as tho. depletion is certainly useful in *hemorrhages*, yet sugar of lead often does good after it fails. In this case



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the lead acts by lessening excitability - Consumption when cured by Opium & Digitalis often returns

Stimuli to reduce great morbid action, act as exercise & labour by reducing excitability. but in general they do great violence to the system. & are much inferior to depleting remedies - They act more safely in Muscular than in Arterial diseases - Some diseases are however beyond the reach of depleting remedies as Tetanus, & the morbid grades of Bilious fever - Here the Opium & bark cure by prostrating the system below morbid action, & thereby wasting excitability. A Question now arises, when are Stimulants to be used? This must be regulated by the stage of the disease, the state of the system, & more particularly the Pulse. When they occasion heat, a frequent & Slow pulse they are improper - If they produce none of the above symptoms, but impart a fulness & Slowness, they may be used with advantage, & the saying that there is a time for all things is in nothing so striking as in Medicine - The Manner of giving Stimuli is in Rotation &



*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

I once cured a case of Tetanus by giving 1<sup>st</sup> Wine  
2<sup>d</sup> Bark 3<sup>d</sup> Opium, 4<sup>th</sup> Brandy & water & then the  
Wine again - but more of this hereafter

Of those Med: w<sup>ch</sup> remove morib. action by  
exciting a stronger & less diseased action in the  
affected part or some other part of the body. Stim-  
ulants are of this class & sh<sup>d</sup> be preceded by  
1<sup>st</sup> Reducing the system below their force by  
means of depletion - This may hold good as a gen-  
eral rule, yet there are exceptions to it - 1<sup>st</sup> When  
it is necessary to destroy irritability in Hemorrhages  
by Sacch: Sat: & in other cases by Digitalis 2<sup>d</sup>  
When we dissipate excitability, as in Tetanus.

II When excitability is accumulated begin with  
small doses of Stimulating medicines & observe at  
the same time to defend the system fr<sup>m</sup> other stimuli,  
as light, conversation exercise & For these by hur-  
rying on the system will defeat the intention of  
the medicine. In Pleurisy after C<sup>ough</sup> once or twice  
endeavour to suspend the Cough by opium, but  
III<sup>d</sup> When there is no accumulation of excitability



\* VI In Chronic diseases stimuli sh<sup>d</sup> be intermitted  
frequently —————

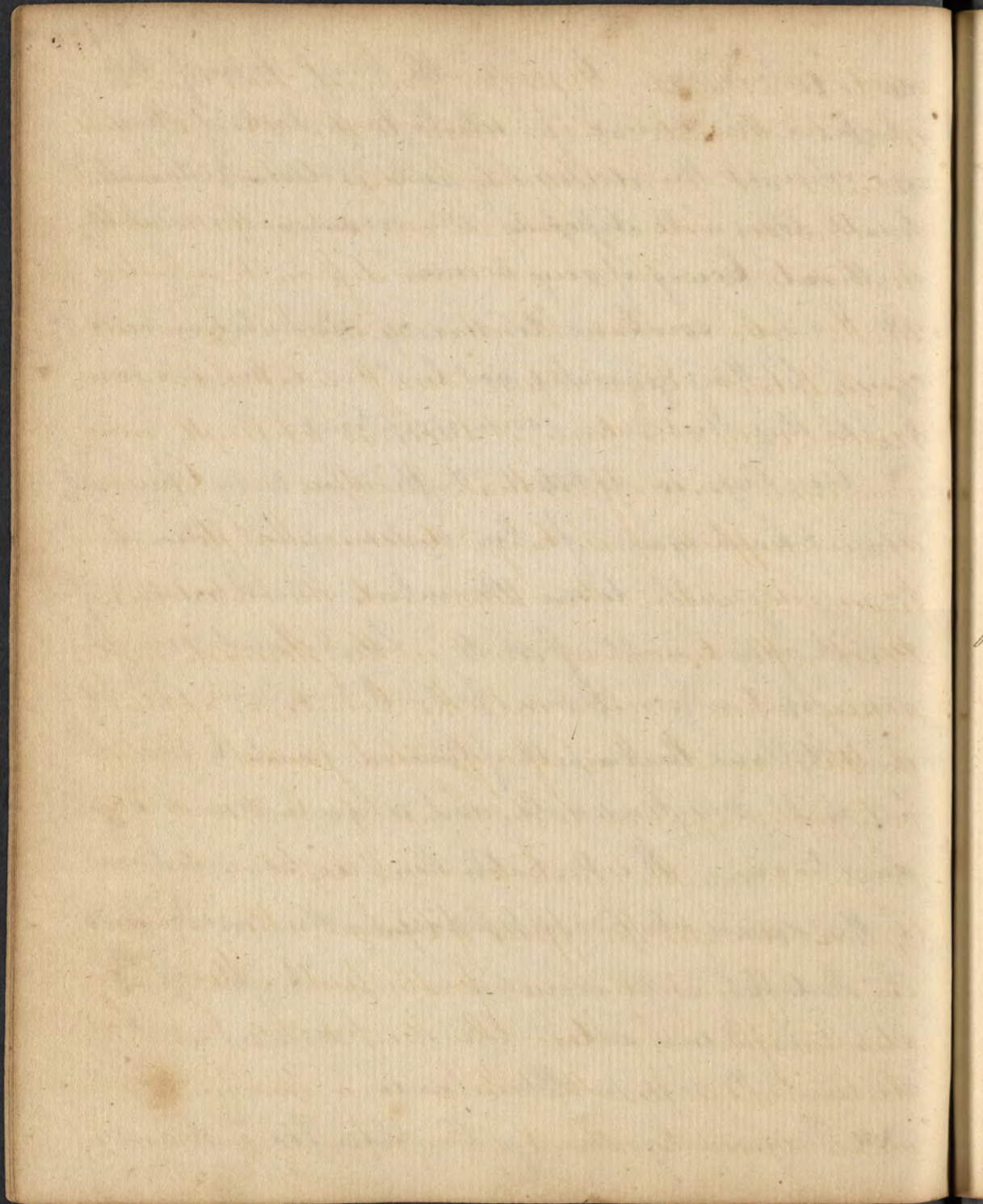
as in Typhus fever, begin with large doses of Stimulating medicines - for while large doses of Stimuli convert the excitability into excitement & health. Small doses will dissipate the remaining excitability without being of any service. —

IV Do not combine too many stimulating medicines; for they generally act best in a simple form, but to this there are some exceptions

V Use them in Rotation, & after you have given all, revert back again - for the system will often become insensible to one Stimulus; whilst another of weak action will affect it - Liquid Laud: may be successful when Opium fails & vice versa. Dr Dewitt tells us that a pill of Opium made 6 Mo<sup>t</sup> before, will sometimes do good, when a recent one does harm - It is probable that no two Med: even of the same class exert precisely the same effects. The Stomach will sometimes bear Quina & not Colombo & vice versa. Chronic diseases as Intermittents & require Stimulants. —

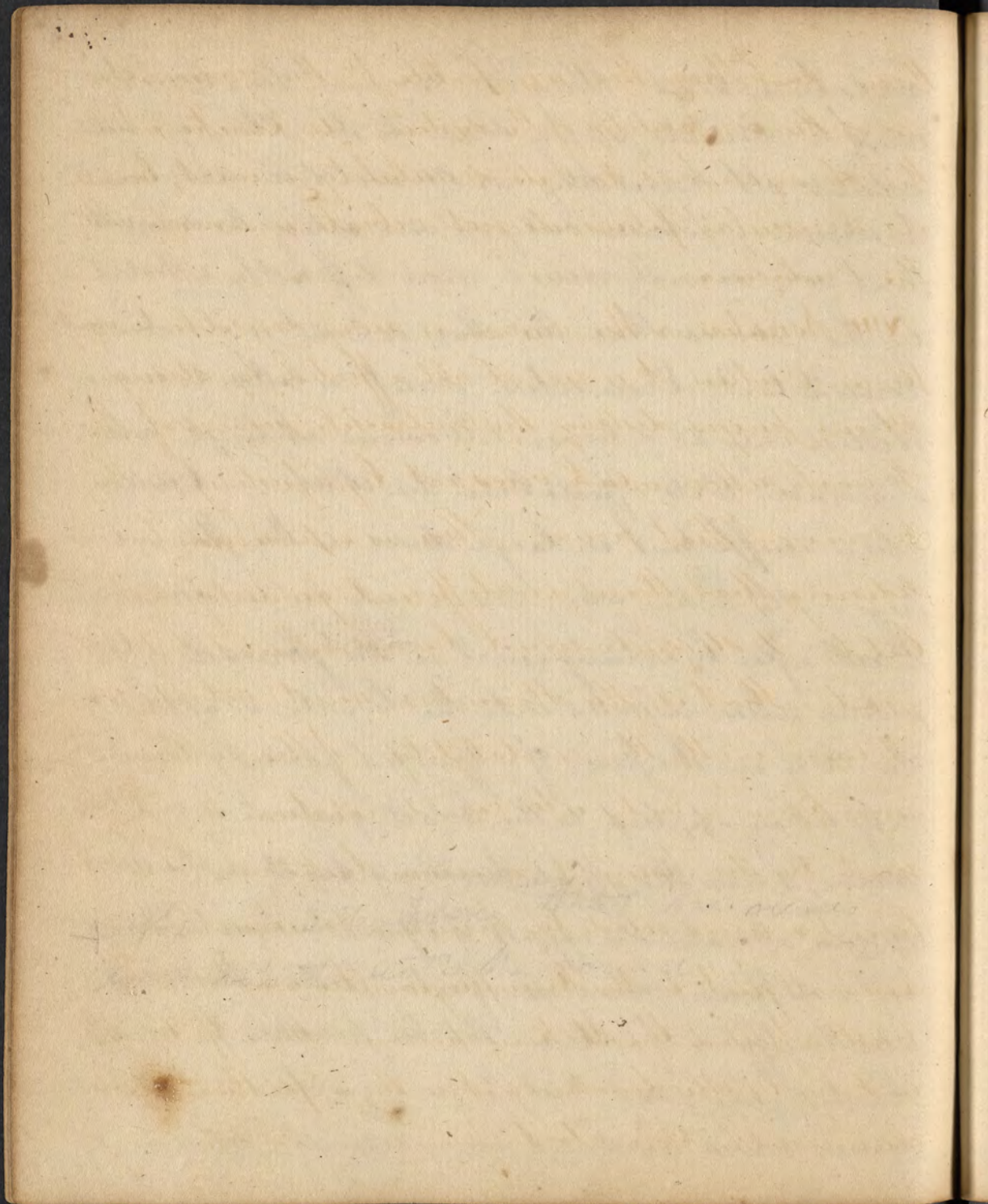
VII Frequently change the place to w<sup>h</sup> Stimuli





are to be applied. When the Stomach has been injured to Stimuli apply them to the skin, it still retains its sensibility as Blisters to the abdomen &c. In chewing Tobacco only on one side of the mouth, that side is with much more difficulty affected by the Tobacco than the other side it is unaccustomed to it. Even when snuff is taken into one Nostril only at a time, it becomes at length more insensible to its effects than the other. — Opium when ineffectual in large doses in the Stomach, is frequently active when thrown into the intestines — Bark after becoming inert in the Stomach is often active when injected into the Bowels, or applied to the skin in the form of a quilted jacket. Electricity when applied to the breast of a Cock is said to revive, & cure the effects produced by it on the Head. Opium obviates the effects of Opium, when applied in a different manner for the first. Merc<sup>r</sup> obviates the effects of Merc<sup>r</sup>: tho' the practice be not safe. Having admitted that there were Specific Stimuli we are obliged to admit an indefinite number of





them; But those that are feeble for the various changes of the irritability of the system. An Emetic when the stomach has lost its sensibility is inert, because its muscular fibres do not vibrate in unison with the medicine.

VIII Sometimes the system is very sensible to weak stimuli when it is not at all affected by strong. Strong purges destroy the contractile powers of the stomach, when weak ones act by assisting in the recovery of that power. This is explained by considering that there are different grades of excitability - & stimuli must be accommodated to the grade - that is, the stimulus must vibrate as it were with the excitability of the system. I once knew a lady who could not hear the noise made by the firing of cannon, but could distinctly hear the noise made by firing a musquet. I also knew a Gent. with Hemiplegia, who was not the least affected by sticking pins in the affected part, but by lightly touching it with a feather he immediately convulsed.



accumulated

10 excitability unusually depressed in  
disease. This has extensive application  
then, or even induced by strokes of electricity  
applied to the head will be revived by the  
same strokes applied to another part of  
the body -

Q. In all chronic cases Stimuli sh<sup>d</sup> be given in the morning, the excitability, at this time, being increased. W. Baron Homburg says there is a certain relationship kept up between the different Stimuli according as they are given in succession. Alkali for instance, will restore the excitability of the Stomach when dissipated by acids - but acids will not restore it when dissipated by alkalies - Do the alkalies act by exciting the dormant faculty of the Stomach?

Of Medicines w<sup>h</sup> remove Morb. action in a part by exciting it in another part less essential to life - or equally essential but not worn down, See the laws of Sensation - Many Physicians do this without knowing it - A head ache is cured by a Diarrhoea - Natural hemorrhages by R<sup>em</sup>. Morbid action in the viscera by Clisters - Dropsy, by diuretics acting on the kidneys - Morb. action of the Lungs, by emetics acting on the Stomach. Apoplexy by a throbbing on the back, the morbid action being thus transferred - Hartley tells us that he gave a dog mus. vomica, & then severely





whipped him. & the sweetonica had no effect, owing to the impression on the skin predominating in force over that of the Stomach - Observe now that there is but one impression felt among those of unequal force, & that is the strongest. - Remember

1<sup>st</sup> You must reduce the morb: action below the stimulating point by Vef. that the med: may at once predominate over the remaining morb: action. I observe again that there are exciting, depleting, blistering, & sweating points, w<sup>ch</sup> it is as necessary for the Physician to know, as that a mariner sh<sup>d</sup> know the signs w<sup>ch</sup> discover a port. -

2<sup>d</sup> Take care that the part in w<sup>ch</sup> you excite morbid action be less essential to life, than the part fr<sup>m</sup> w<sup>ch</sup> you intend to remove it. To this there are some exceptions - 1<sup>st</sup> In Convulsive Epilepsy delirium has been induced by opium with advantage - In Consumpt<sup>n</sup> it is sometimes proper to create morb: action in the brain by means of Opium or Spirits - Here it is better to bring on derangement in the brain w<sup>ch</sup> is more essential to life than the lungs than to let disease be sta



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tionary in the lungs, doing more irreparable mischief. Intoxication sometimes entirely removes consumption &c. 2<sup>o</sup> Tetanus is often cured by drunkenness. 3<sup>o</sup> In Pleurisy it is most effectual to put a Clister on the affected part. & in Fevers it is sometimes necessary to bring on hunger to such a degree as to endanger life, in order to accumulate excitability in the stomach.

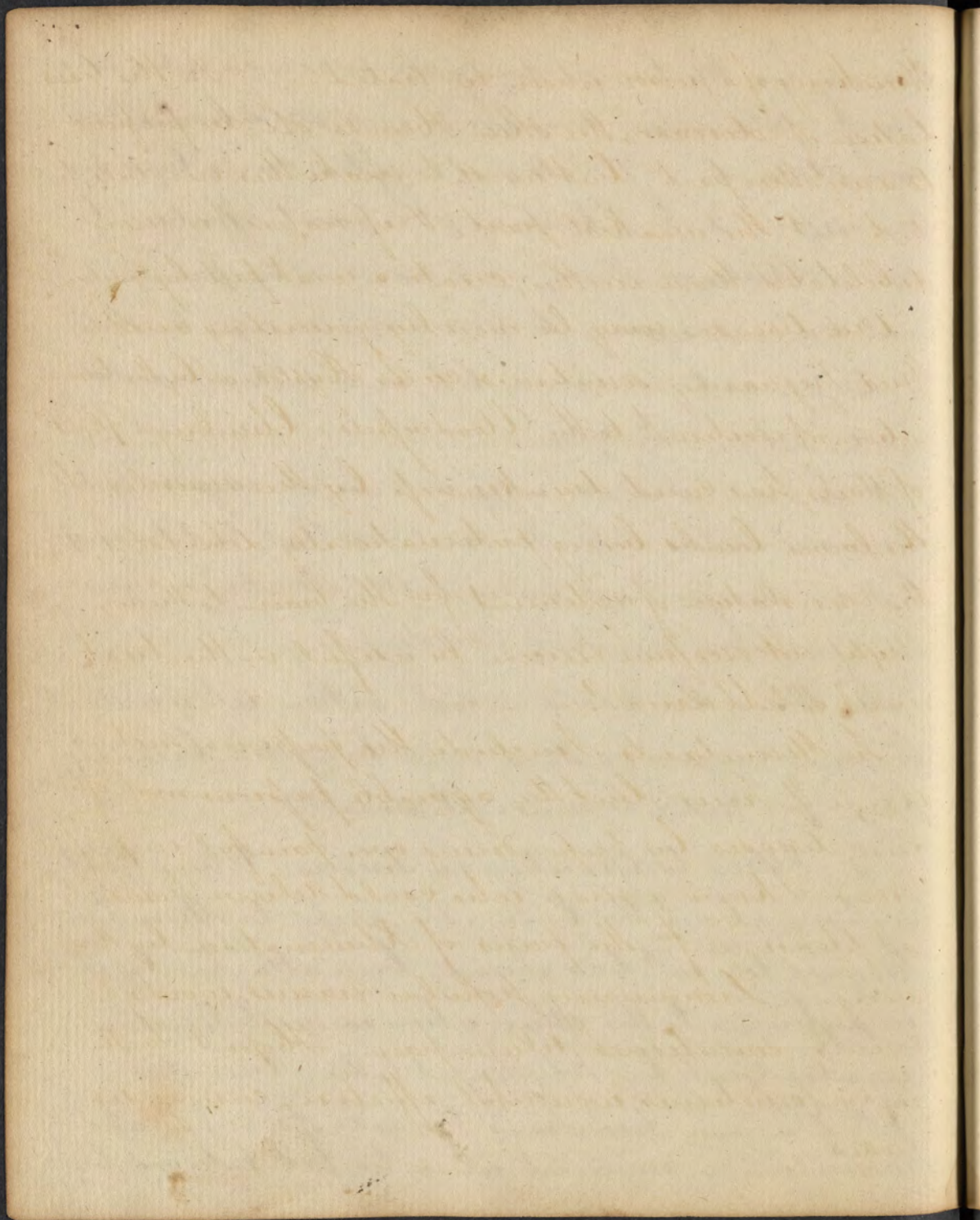
3<sup>o</sup> To prevent unsuccessful practice enquire into the peculiarities of the patient, his habitual diseases &c. but in dangerous diseases little attention is requisite to the effects of habitual Medicines.

4<sup>o</sup> When the second morb. action w<sup>t</sup> is excited becomes languid, a third must be excited, because pain for Habit becomes pleasurable. —

5<sup>o</sup> Attend to apoplexy in diseases. When Gout is flying about the body it is proper to Stimulate the great toe w<sup>t</sup> has already been attacked by it in preference to the other, when we wish to induce regular Gout by soliciting it to the extremities —

Dr Darwin mentions the case of a man who was always recruited when he felt fatigued, by





Thinking of a person whom he hated. - In the translation of disease, the skin & bowels sh<sup>d</sup> be preferred to any other part - but we sh<sup>d</sup> make this our rule, to seek out the weakest part, & if no part is more debilitated than another, create a weak part by friction.

One disease may be cured by generating another. Thus Pregnancy sometimes cures Hysteria by the translation of excitement to the bloodvessels - Climbing a flight of stairs has cured drunkenness by the muscles of the lower limbs being preternaturally debilitated, & the translation of excitement from the brain to them. - Might not excessive exercise be useful in the treatment of Mania?

In Stimulants I include the passions, such as Anger & Fear, but the agreeable passions most often cure diseases by preponderating over painful impressions. I knew a man who could relieve himself at pleasure from the pains of Rheumatism by dancing. - Pronouncing popular names, words & events sometimes relieve pain. Hope & Faith have sometimes wonderful effects in curing diseases. -



x Debility is constantly attended with considerable  
relaxation of the bloodvessels —————

Of Medicines w<sup>t</sup> prevent the recurrence of diseases by removing predisposing & succeeding debility. These I shall call Tonics - & the Rules to be observed in their exhibition are the follow<sup>g</sup>

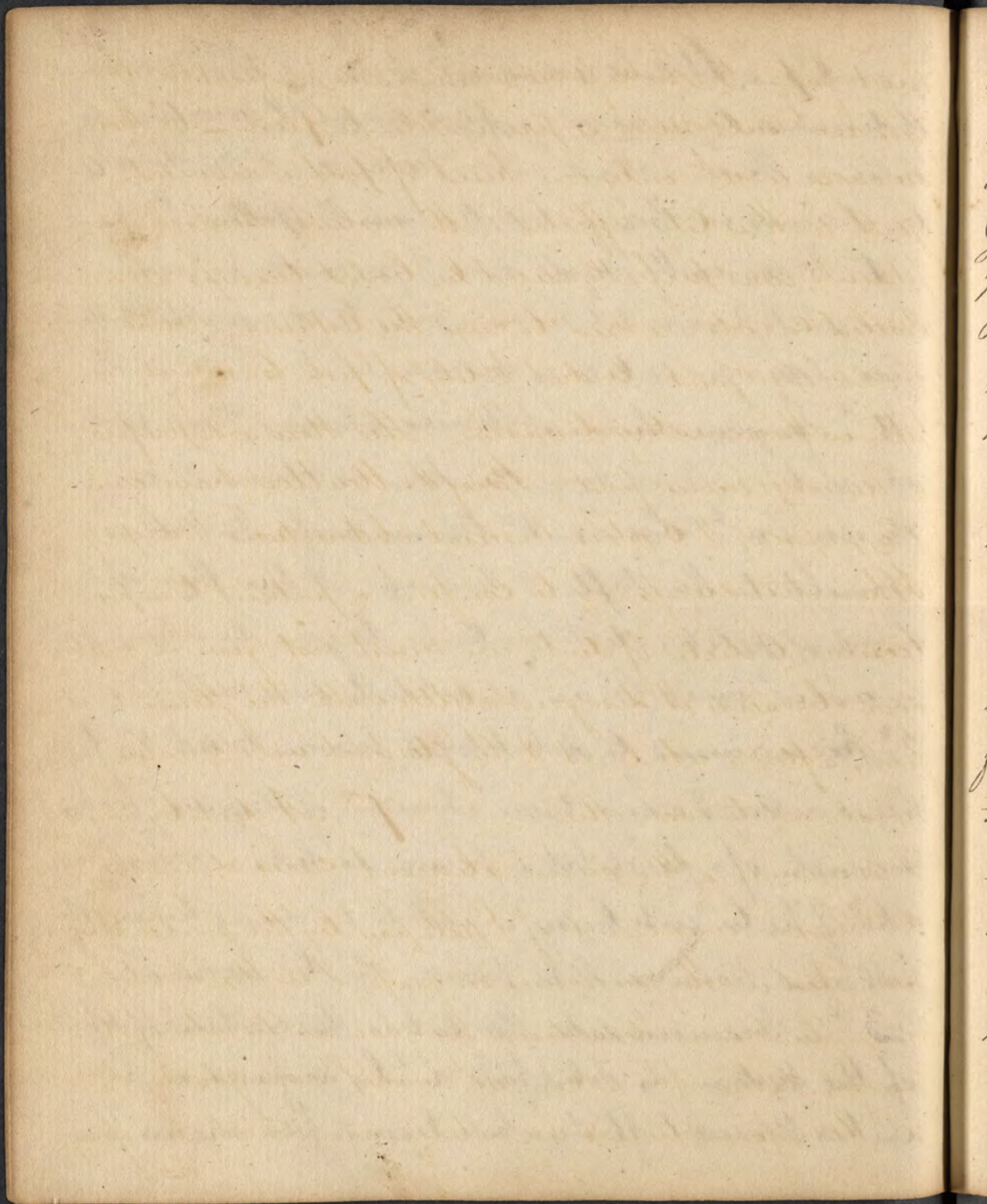
I<sup>st</sup> Begin with small doses & gradually increase. A much less quantity is necessary to remove debility than is necessary to cure disease.

II<sup>d</sup> In your choice of Tonics always prefer such as are durable in their operation as Aliment in the use of w<sup>h</sup> observe 1<sup>st</sup> Always prefer that w<sup>h</sup> is agreeable to the taste & Stomach - & tho' there sh<sup>d</sup> be no appetite, still continue to give the Aliment, for who w<sup>d</sup> wait for an appetite to give medicine -

2<sup>d</sup> Recommend to debilitated persons to eat 5 or 6 times a day & once or twice at night, if sleepless - for the Stomach of a debilitated person is like a school boy, who if he be not busy is apt to be doing harm. A full meal however like poison sh<sup>d</sup> be avoided -

3<sup>d</sup> Accommodate the diet to the excitability of the system. Solid food sh<sup>d</sup> be preferred, as it makes the most flesh, while liquid food makes the





most fat - 5<sup>th</sup> The less nourishing is preferable - On this acct salt meat is preferable to fresh - 6<sup>th</sup> There are cases in w<sup>h</sup> only one kind of food is required. A Gent: in this City affected with violent Stomach complaints, was perfectly cured by boiled turneps alone. Boiled Carrots are said to cure the Asthma, Bread & milk the Gout - A diet solely of fish has cured certain inflammatory diseases - The Stomach prefers a homogenous food - Beef & Mutton have cured Dyspepsia, & Oysters visceral obstructions & dropsy When it is necessary to confine a patient to a particular Article of diet, we must not give it up too soon because it disagrees a little with the Stomach at first, after a while, it & the Stomach will become naturalized to each other. - 7<sup>th</sup> A diet by weight & measure of the same aliment cures diseases. - Dr Taylor was cured of Epilepsy by the milk of a cow fed in the summer on grass. & in the winter on hay - But was disordered as soon as he ate of the milk taken from a cow w<sup>h</sup> was fed on grain. - 8<sup>th</sup> Uniform hours in eating are strictly necessary



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The sooner after leaving bed in the morn<sup>g</sup> the better.

Drinks. Tonics comprehend 3 kinds of Drinks. These are 1<sup>st</sup> Malt liquors - 2<sup>nd</sup> Different wines as Madeira Sherry & 3<sup>rd</sup> Low wines as Malaga, Port, Champaigne & Cider. You see I do not include Ard<sup>t</sup> Spt<sup>r</sup> in this class for a man had better die than use this detestable Brunonian remedy. In Chronic cases they are always injurious, as their use will finally create a love for them, w<sup>ch</sup> when confirmed by habit, nothing can eradicate. -

IV Cold & Warm Baths remove debility & diseases of weak morbid action. The warm bath sh<sup>d</sup> be used between 12 & 1 o'clock only -

From 110 to 100° of Fahrenheit constitutes the Hot bath

100 to 96 the warm

96 to 85 the Tepid

85 to 65 Temperate

65 to 32 Cold The Hot bath is peculiarly adapted to the stricture state of the system useful in the cure of Neuralgia, & diseases of weak morbid action. The warm bath is very



The first of these is the fact that the  
 number of the series is not a multiple of 10.  
 The second is that the number of the series  
 is not a multiple of 10.  
 The third is that the number of the series  
 is not a multiple of 10.  
 The fourth is that the number of the series  
 is not a multiple of 10.  
 The fifth is that the number of the series  
 is not a multiple of 10.  
 The sixth is that the number of the series  
 is not a multiple of 10.  
 The seventh is that the number of the series  
 is not a multiple of 10.  
 The eighth is that the number of the series  
 is not a multiple of 10.  
 The ninth is that the number of the series  
 is not a multiple of 10.  
 The tenth is that the number of the series  
 is not a multiple of 10.

much used in Italy - When it is used the patient may continue in  $\frac{1}{2}$  10 minutes to 2 hours  $\frac{1}{2}$  half. The warm bath may be made more stimulating by the addition of common salt, & heat may be applied to the body thro' the medium of hot salt.

The cold bath sh<sup>d</sup> never be used when the body is debilitated or covered with sweat - It sh<sup>d</sup> not be continued too long, or it debilitates. In great torpor of the system as in Neuralgia, ice applied to the head & hot water to the feet has equalized the excitement of the system. - The cold bath acts indirectly as a tonic abstracting heat & accumulating excitability; & dressing after the use of the cold bath converts the excitability into excitement.

To be more effectual it sh<sup>d</sup> be preceded by the warm.

2<sup>o</sup> It sh<sup>d</sup> be temperate - when the water is cold it sh<sup>d</sup> be warmed & vice versa

3<sup>o</sup> It sh<sup>d</sup> be used 2, 3, or 4 times a day

4<sup>o</sup> In a warm room during the winter

5<sup>o</sup> Exercise & friction sh<sup>d</sup> succeed it.



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V Exercise holds a great rank in the class of Tonics as obviating simple debility, & may be divided into 1<sup>st</sup> Passive 2<sup>d</sup> Active

1<sup>st</sup> Passive includes, Friction, rocking in a cradle, chamber horse, swinging, sailing &c

2<sup>d</sup> Active Walking, labour swinging sailing &c Riding on horseback is partly active, & partly passive.

Exercise increases the action of the Lymphatics & muscular strength. — The following rules are to be observed in the use of exercise

1<sup>st</sup> In great debility begin first with the passive, as friction. The effects of it in overcoming debility are wonderful. The flesh brush, here made use of, may occasionally be impregnated with Creosote or Ard<sup>st</sup> Spt<sup>r</sup>. It increases the action of the Bloodvessels & muscles, promotes secretion & sensation. The Chinese are remarkably fond of this remedy, & carry it so far as to have professed Quacks as we have Barbers. They frequently hold their brushes over vapours of Myrrh previous to their application. It is remarkable that a curried Cow will give more milk than



D. Rush emphatically terms exercise the Morality  
of the Mat. Med. ~~and~~

one that has not been subject to the Curry comb.

The exercise of the hands as in Shuttle cock - the good effects of this we see daily in Tailors Shoemakers Ladies &c. - Swinging Sailing & Riding in a Carriage, are the next stage of exercise, as they take place in the open air. Swinging is useful when the patient is not able to take other exercise. It was recommended by Dr Hogaith & J. Smith in Consumption - I cured one case of this disease completely by it. Sailing creates a disease in the Stomach, & thereby carries off the seeds & effects of the primary disease - it also keeps up a perpetual conflict between the passions of Hope & Fear - Sailors are generally healthy when the vessel is kept clean. -

The Balloon only used formerly in time of war, may yet come to be used in cases of debility -

Partial exercise as before observed removes debility. A person held one hand in water at 62 & by exercising the other it rose to 68 after it had risen only to 64 by the warmth of the room. Riding on Horseback is highly recommended in Consumption -





It spends less excitability than walking, it may be used in cases where it is necessary to spend much excitability. 2<sup>d</sup> Avoid all fatigue. 3<sup>d</sup> Accommodate it to the state of debility. 4<sup>th</sup> The same rule may be observed in the use of exercise as in eating - never take so much <sup>at a meal</sup> as to render you unable to take more immediately afterwards without injury. Patients are often in this respect ungovernable. 5<sup>th</sup> Exercise should never be used before breakfast, or immediately after a meal. - Different kinds of exercise suit different diseases - as exercising the muscles of the back in Nephritis - Labour of the arms best in Pulm. Consumption.

VI Habitual debility is to be removed by a change of occupation

VII Travelling is an agreeable & useful stimulus for the exercise it attends it, the change of air and succession of new objects. It removes for the inquiries of friends after the health of the sick, it inquires often do harm. I have known a return of an Intermittent induced, by a friend asking the pati-





ent 7 hours after the usual return of the Fever, when  
 then he had escaped it

VIII Change of Climate & of former associations  
 are useful in nervous diseases as Hypochondriasis  
 Hysteria & Epilepsy, Stomach, Fever convulsions are  
 cured by it. They are benefitted by a change of cli-  
 mate, & men prolong their life by the change, es-  
 pecially old people when it is from a colder to a war-  
 mer one

IX An uniform climate for invalids tho differ-  
 ent from that they have been accustomed to, is of con-  
 siderable service to them. In certain cases of debi-  
 lity, a warm room from 70 to 79 day & night. sh<sup>d</sup> be  
 used, & in order to keep the room from being too warm,  
 a vessel of water sh<sup>d</sup> be placed upon the stove w<sup>h</sup>  
 will evaporate at a certain degree of heat & thereby  
 cool the air of the room by its vapour

X Change of diet dress & Mansion is frequently of  
 great service

XI Cheerful company & agreeable reading obviate debility

XII Advise Convalescents to go to bed early at a fixed



1881  
The first of the year was a very dry one  
and the crops were much injured  
by the drought. The wheat was  
very poor and the corn was  
also much injured. The  
cattle and sheep were  
also much injured by the  
drought. The people were  
very poor and the  
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hour, & to ride at the same hour every morning. Sleep protracted to 12 hours has given the system time to recruit itself; & patients have recovered after their lives have been despaired of.

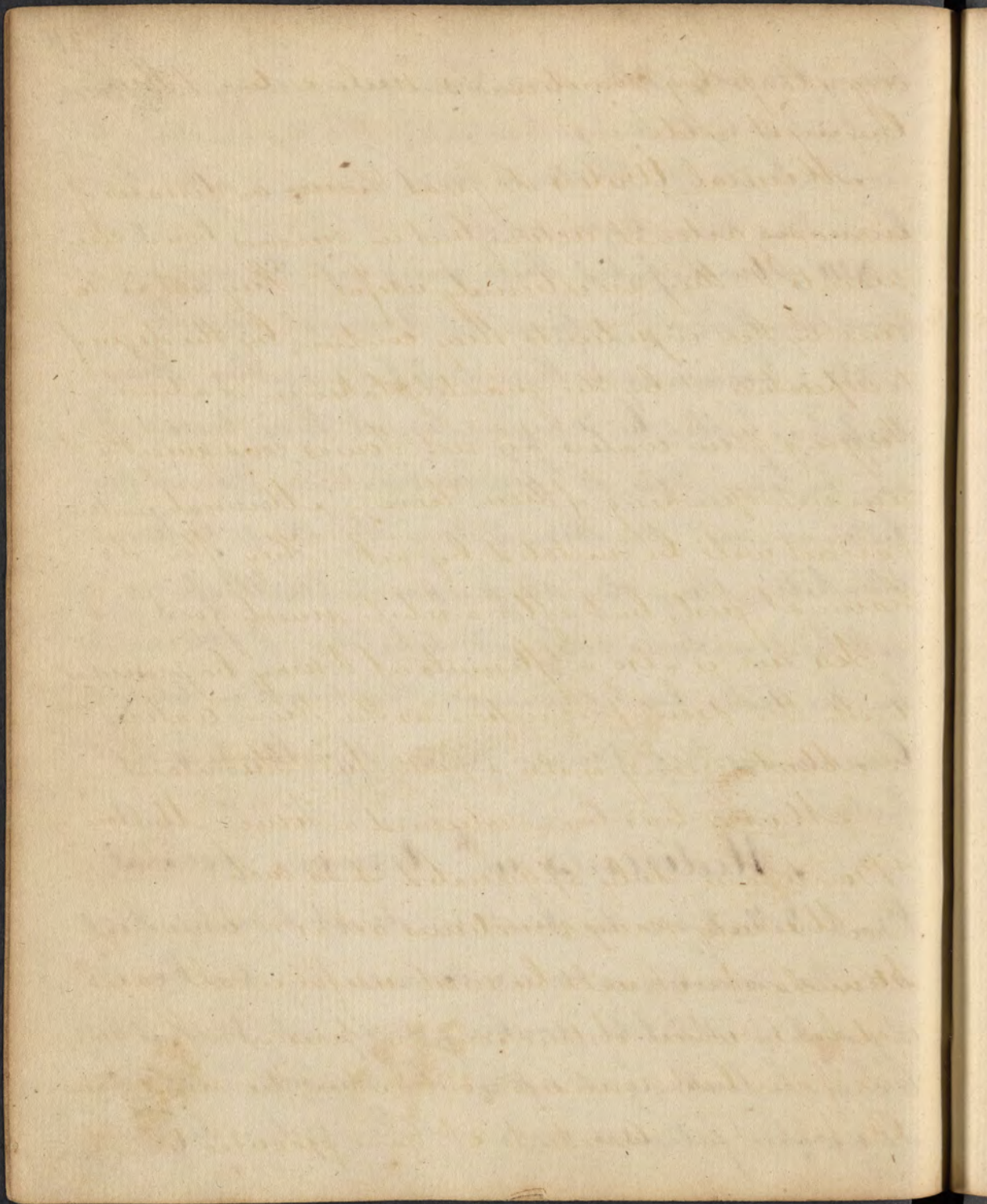
XIII Strictly forbid their going into the night air, or moist weather, or gratifying the Venereal appetite.

XIV. Accommodate their dress to the weather. Their dress had better be 3 degrees too hot than too cold. It sh<sup>d</sup> be loose, there sh<sup>d</sup> be no ligatures, flannel sh<sup>d</sup> be worn next the skin & they sh<sup>d</sup> sleep between blankets - They sh<sup>d</sup> sleep upon a mattress - as a soft bed induces indirect debility - & alternately on the sides, but never on the back in debility, because the nightmare frequently attacks in that posture.

### Medicines w<sup>h</sup> Remove debility.

Bark & Steel are the best in direct debility. Strong drinks sometimes cure diseases by ~~by~~ knocking out excitability, rousing dormant excitement, & afterwards locking it up in the muscles. The Indians when fatigued will rest themselves by carry





ing a large log sometimes a mile or two & then laying it aside -

Mineral Waters do great harm in diseases of increased arterial action, but in nervous bowel complaints & they are extremely useful. They act as Tonics by the ingredients they contain, by the degree of temperature, & by the quantity taken in at a time -

Purging Min. waters are not Tonics, consequently I am not speaking of them here. Mineral waters cannot well be imitated by art - They often do harm at first, but after a while much good. -

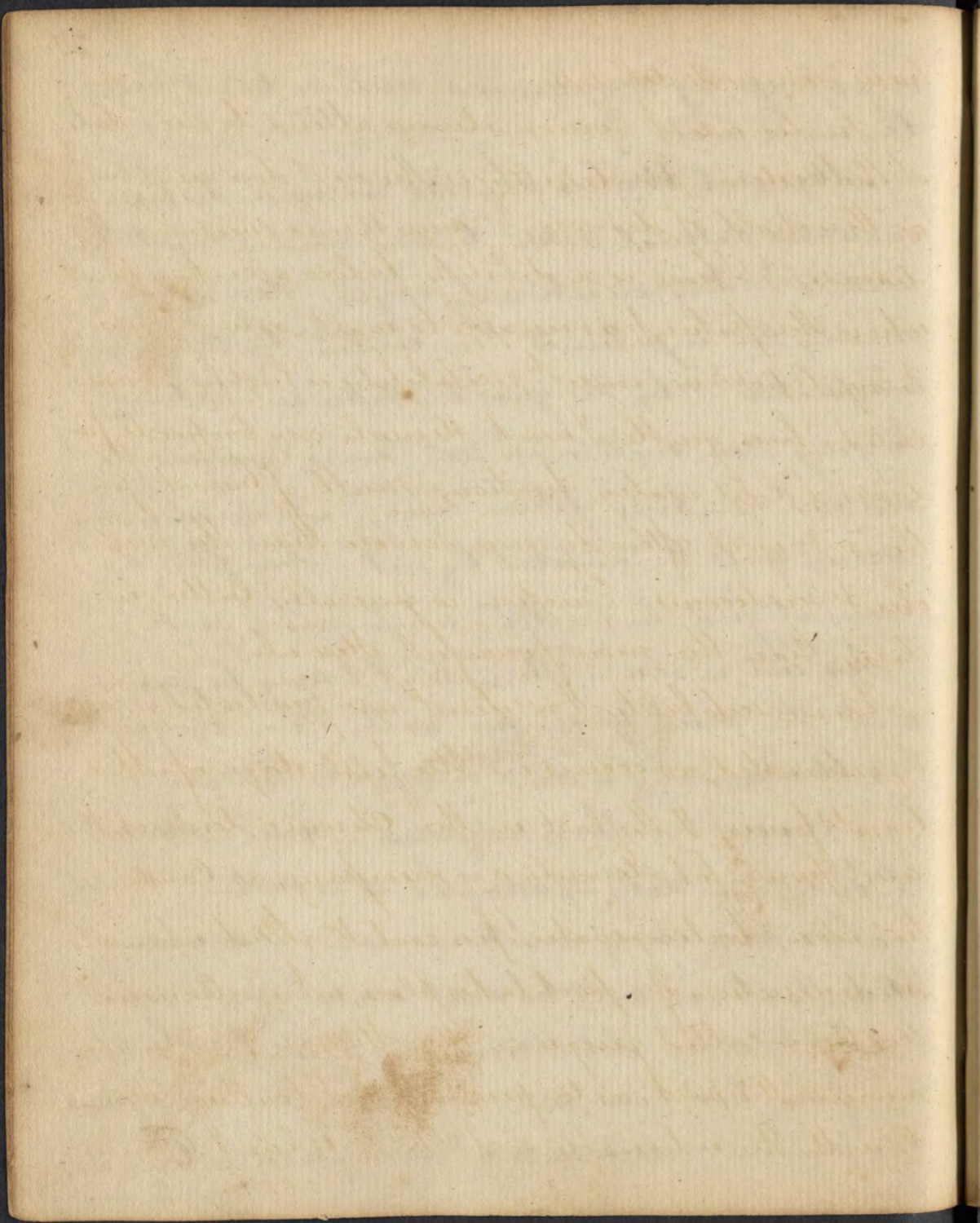
Sea air is also a Stimulant & may be prescribed with the same precaution as the Min. waters

Masticum is also a powerful Stimulant. -

Music has been esteemed a Tonic. Milton & Boerhaave duly appreciated it as such. -

Mercury may sometimes act as a universal Stimulant - it will be most useful in all cases of debility where obstructions are present - It is here one of our best remedies - even when the more agreeable fail. - Accidents w<sup>h</sup> have produced terror have





have removed debility —

In the use of Tonics, always attend to the state of the system, for debility is the next door neighbour or threshold of disease, & sometimes even worse than disease. There is a debility below a certain point where the patient is unable to walk, as in Scurvy, Palsy, Apoplexy, in w<sup>h</sup> excitability is highly accumulated. Here gentle & weak stimuli are proper. A few drops of Cold water, friction, smell of burnt Feathers & will often do more service than the most violent medicines. Friction is generally better in Palsy than the more powerful Stimuli.

When excitability & excitement are prostrated or nearly exhausted, as occurs in the first stage of Malignant fever, & the last in the Chronic Diseases, the most powerful Stimuli are necessary, as Caustic, red hot iron, Boiling water, Fire coal &c. But when a total destruction of a part takes place, w<sup>h</sup> in Animal matter is called gangrene, the Stimuli sh<sup>d</sup> be applied around the part, as turpentine, hot poultices, Blisters &c. with the internal use of Bark wine & Opium.



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Large doses of narcotic medicines have overcome debility <sup>which</sup> has refused to yield to all the tonic remedies in small doses

Tonics are exhibited 1<sup>st</sup> By the mouth 2<sup>d</sup> By injection - 3<sup>d</sup> By the nose 4<sup>th</sup> By the Lump 5. Externally. - The mouth is the best channel for medicine from the sensibility of the mouth fauces & Stomach & their sympathy with the whole system Opium may be given by way of Clyster, in this way it is generally necessary to administer 3 times the quantity of that taken into the Stomach to be as effectual - Spirits, Camphor, Vol: Salts &c may be applied to the nose. Dr Blissholm of Montpellier with Camphire & Opium applied externally cures obstructed menses, with Digitalis dropsy; & with bark & Spt<sup>l</sup> all kinds of fevers - In this case I think the friction of the hand the principal means of cure. I have known Camphor & Opium dissolved in sweet oil to act like a charm in pains of the knees when applied externally to the part. - Thormakers wax & bergundy pitch applied to the soles of the feet relieve headache. Spirits to the





abdomen relieve colic - Sweet oil has cured Ascites & when rubbed over the whole body has been said to cure Malignant fever - The manner in w<sup>h</sup> they act is 1<sup>st</sup> by friction - 2<sup>d</sup> By exciting a determination of the fluids to the part - 3<sup>d</sup> By sympathy Sometimes they all three combine - The parts to w<sup>h</sup> these med<sup>s</sup> may be applied, are the Stomach, belly, inside of the thighs, near the perineum, soles of the feet, arm pits, back bone & anus. -

There are some who have a susceptibility to one class of medicines, or a particular med. in a class for Idiosyncrasy - we sh<sup>d</sup> try to find out this. -

Of Medicines w<sup>h</sup> remove diseases by abstracting redundant & foreign matters from the body, & w<sup>h</sup> offend by their quantity or quality. - These matters are mucus worms, bile, pus Calcareous matter &c. & the medicines Vomits, Purges Diuretics, An. Helminthics - Deobstruents, Sialogogues &c. of w<sup>h</sup> we have spoken before. -





Of Medicines w<sup>h</sup> remove diseases by mixing with & thus destroying matters w<sup>h</sup> are found by their quality - 1<sup>st</sup> Magnesia destroys acids in the Stomach by uniting with & neutralizing them 2<sup>d</sup> Biliour & Menal Calculi, by lime water, vegetable alkali vitriolic acid &c 3<sup>d</sup> The Itch is cured by Sulph. & Merc. the Venereal disease by Mercury. Demulcents are used to allay cough Catarrh &c They are Glasseed tea, decoction of bran mallows, sulphur Mercury &c

Of Medicines w<sup>h</sup> cure diseases by removing obstructions. - These as I said before, are not the cause but the effects of disease. They produce disease by reacting, & occur most frequently in the visceral & Lymphatic glands - Thus we see morbid debility, disease & obstructions at the same time. - These medicines are certain Tonics called Deobstruents, as Bark, Steel, Mercury, Arsenic, Cold bath, external applications, local bleeding, fear acts powerfully, & I think it is in this way the Royal touch acts. I will conclude this subject



17th of the month of June 1861  
I have the honor to acknowledge the receipt of your letter of the 14th inst. in relation to the matter of the  
land of the State of New York. I have the honor to inform you that the same has been forwarded to the  
proper authorities for their consideration. I am, Sir, very respectfully,  
Your obedient servant,  
J. B. Thompson

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with observing that obstructions are the effects of acute or chronic inflammation & where they have been used in time they rarely occur.

Of Medicines w<sup>h</sup> are supposed to cure diseases by changing the quality of the Fluids or the texture of the Solids. The only two remedies worthy of Consideration under this head are Oxygen gas & Carbonic acid gas, taken into the Stomach. They exert a manifest action on the Kidneys.

### Of Medicines for relieving pain.

Pain may be defined to be a tendency to a solution of Continuity in a part - As pain is the effect of disease, the remedies sh<sup>d</sup> be proportioned & accommodated to the State of the System. Pain is sometimes a remedy, & in this case it sh<sup>d</sup> not be relieved, unless so violent as to endanger life.

1<sup>st</sup> Of relieves pain as in Pleurisy, headache, Gout, Rheumatism, Colic & where the Arterial excitement is general.





2<sup>d</sup> Opium in large doses relieves pain, when morbid excitement is moderate, by inducing indirect debility, & thus reducing the system to the sleep<sup>d</sup> point. In giving large doses care sh<sup>d</sup> be taken that the seat of the disease or pain, be not in a part where effusions are dangerous, as in the Brain & H<sup>o</sup> sh<sup>d</sup> be cautiously used - It appears to be better adapted to the relief of pain in cases of moderate action of the Bloodvessels. When offensive to the Stomach it may be given by Glyster - When Opium fails, henbane, hops & rhubarb sh<sup>d</sup> be tried.

3<sup>d</sup> Fasting relieves pain. Dr Priestly informed me that a criminal who was put upon the torturing machine bore the pain with fortitude by fasting 2 or 3 days before. Those who die of Famine never feel pain after the first 4 or 5 days owing to losing their sensibility at this time - The system is here reduced to the stictum state

4 Cold water eases pain, when there is great morbid action. This was often experienced in Yellow Fever of 1793 When given by way of injection, it acts



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x

acts like a charm in Hemorrhoids x

5 Cold air is useful in great Morb. et: Their relief is frequently found in thrusting a painful limb out of bed.

x 6 Ice is beneficial added to the water, it sh<sup>d</sup> be continued a long time. Gentle effusion of water gives great ease in Gout. But dashing it on the limb increases the pain. This verifies the act of the rich man in the Gospel who intreated a drop of water to quench his thirst. — R

7 Warm water acts as an Anodyne in cases of great morb. action. given as a Clyster in Colic. It is a great stimulant to the muscular fibre. It will excite the action of the heart out of the body when irritating it with a needle will not. It lessens pain when applied externally. Pediluvium often relieves a light headache. —

8 Demulcents & oil relieve pain, as poultices — Sweet oil

9 Frictions of the hand Lord Nelson in his last moments frequently called out "rub, rub."

10 Rubifacients relieves pain in extreme parts



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A Sheepskin or the maw of a Cow on the stomach frequently cures colic in children

11 Cheerful company

12 Hallowing gnashing the teeth & crying all mitigate pain - Women bear child birth much better by crying - It is evidently injurious to smother our groans, however unmanly it may appear to give vent to them. A French Marquis once died by thus suppressing his feelings during a painful operation - Homer describes the dying Soldiers as biting the ground to ease the pain of their wounds

13 Fear chases away pain when accompanied with great morib. action

14 Whipping relieves pain - for instance, for instance the dog that was whipped after taking a large dose of Nux Vomica, by Dr Hartley - He also gave Arsenic to another, who was also whipt & discovered no symptoms of pain from the Arsenic

15 Pressure on the abdomen relieves the tortures of the Colic - The Indians cure the Colic by standing on the belly of the sufferer for 10 or 15 minutes



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A Gent in this City removed the pain of the Rheumatism by applying a hot iron near the affected part

16 Sounds relieve pain. I once heard of a man who was relieved of the pain of the Gout by making his servants sing very loud. It is owing to this that we seldom see many children cry at the same time. The child that cries the loudest generally silences the rest. Their pain being in a measure relieved

17 Employment both of body & mind Gen. Kosciusko relieved himself of pain in Petersburg by turning himself around

18<sup>th</sup> By Cupping

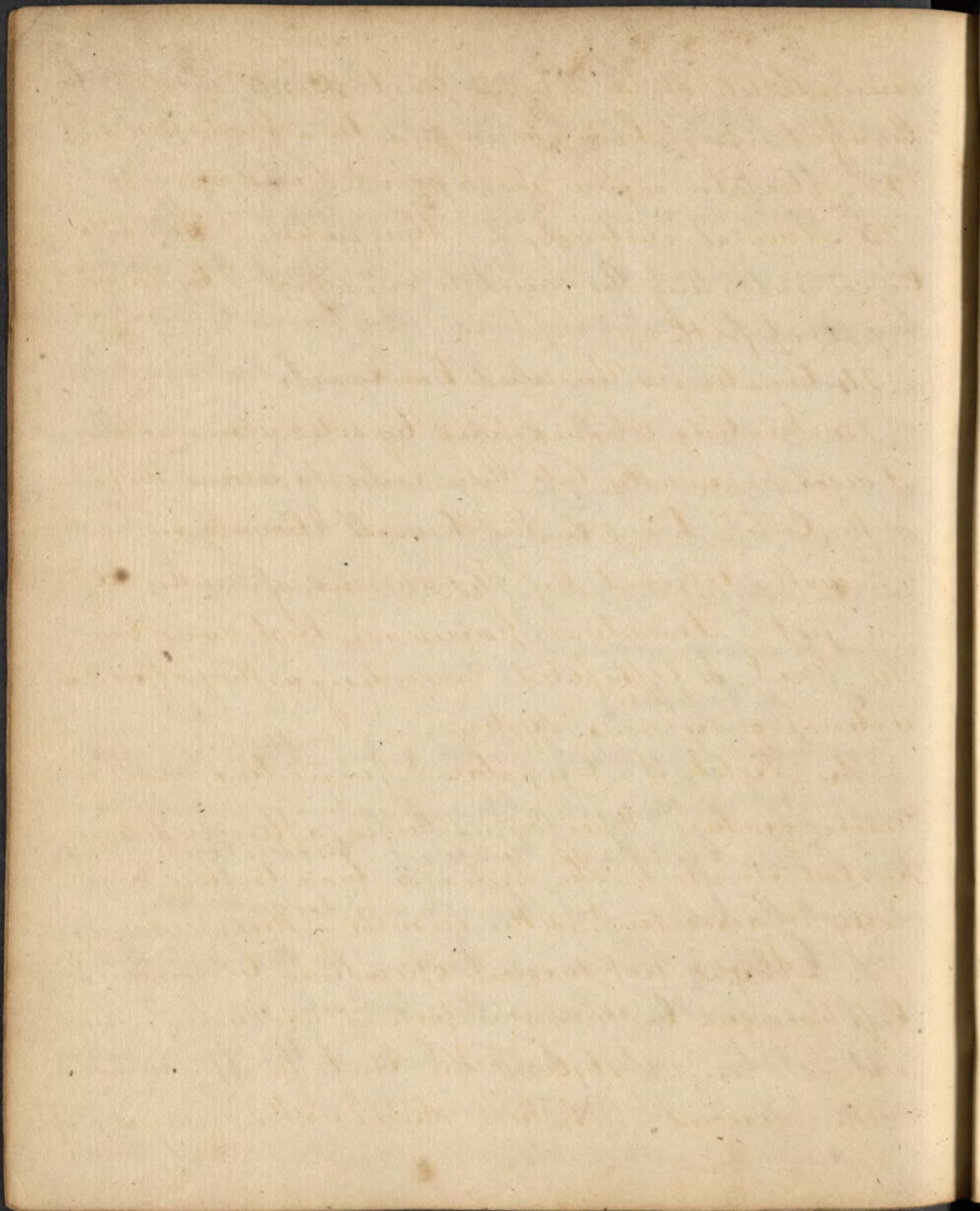
19 Small draughts of water when there is great thirst Dr Fothergill obtained ease in inflammation of the bladder in this way. "Water water" was almost the last cry of the expiring Lord Nelson.

20<sup>th</sup> Cutting the nerves leading to the affected part frequently relieves the Toothache

21 Sulphur when pressed between the fingers cures muscular spasm mechanically.

Mustard gives more relief applied near, than





immediately on the affected part. This is explained by the affected part being peroccupied by Morb. excitant.

22 Metallic or other sharp pointed instruments

23 Animal electricity & Magnetism. This acts by concentrating the mind to one object & by the principle of faith. —

24 Counting a Hundred backwards

25 Fainting relieves pain by a revulsive action — Horses frequently bite their cribs to relieve the pain of the Colic — Pains in the Stomach & Bowels are most effectually relieved by Symplicisms of Mustard to the Feet — Periodical pains are best cured by the Bark, or Asafotida according as they affect the arterial or nervous system. —

The sight of a long absent friend has roused expiring nature & performed cures after medicine has lost its effect. The Indians bear torture heroically for resentment at the insults of their enemies

Might not surgical operations be rendered less painful by being performed gradually? The Surgeon might abstract the knife for a few moments & then proceed — Nature shews us the necessity of



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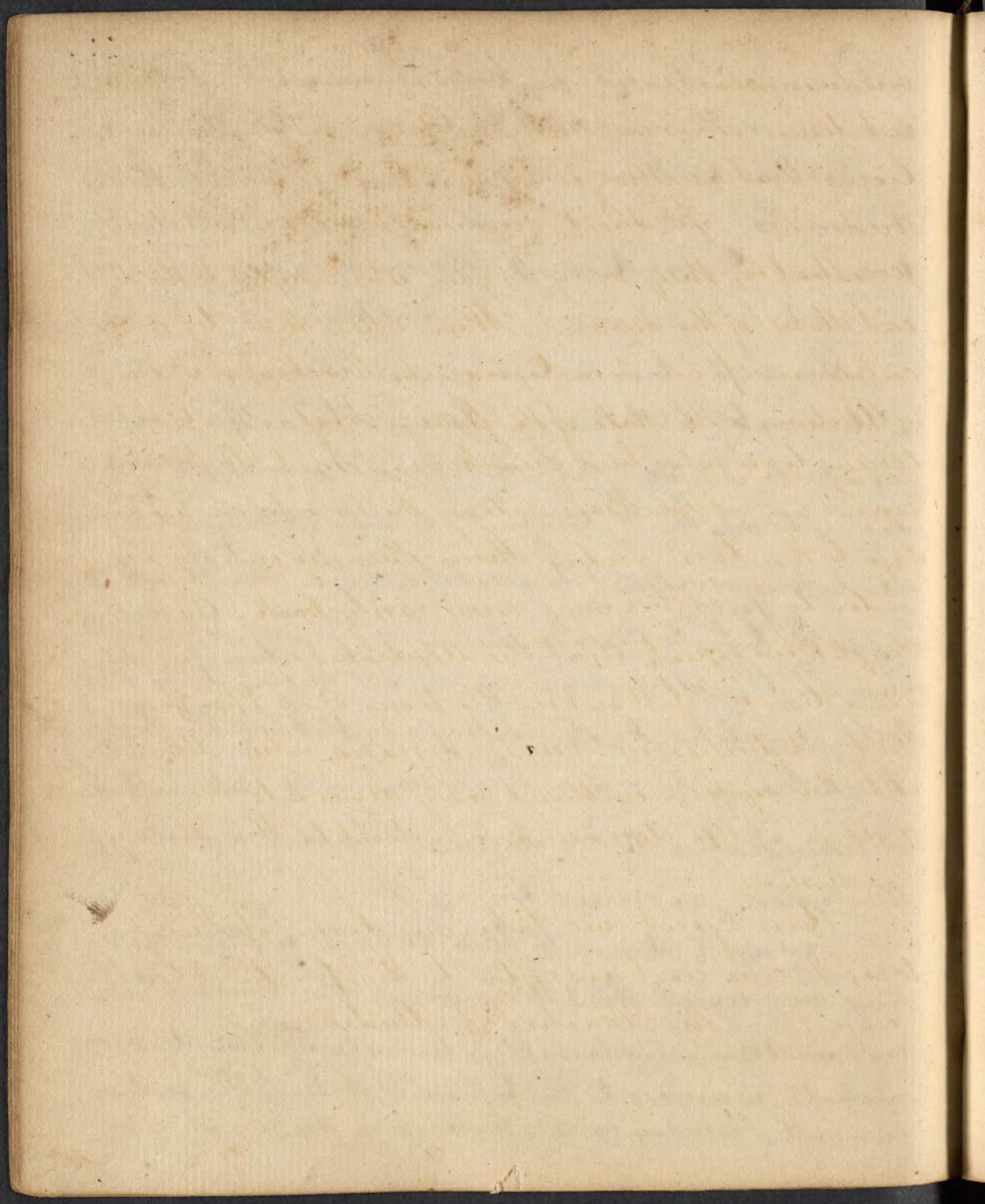
intermissions in pain; were this not the case, what woman could support the pains of parturition. —

What is<sup>d</sup> be the effect prior to an operation, of rendering the system insensible by a large dose of Opium? Drunkenness has rendered a woman insensible to the pains of Parturition. —

The next & last article in our Therapeutics is the Means of Obtaining Longevity. This is not foreign to our subject. In life there is a constant tendency to death & Longevity is only obtained by accommodating excitement to excitability, or the stimulus support life to the excitability. The same rules which preserve life, do not answer in all cases; but we are to be regulated by the different states of the System. Let clothing, diet, drinks, amusements exercise &c be accommodated to the different habits & states of the system as varied by age &c

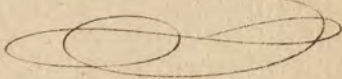
I cannot dismiss this subject without expressing my regret that there are so few books which are not written empirically; few are written to accommodate remedies to the different states of the system, hence the many contradictions in them. Few



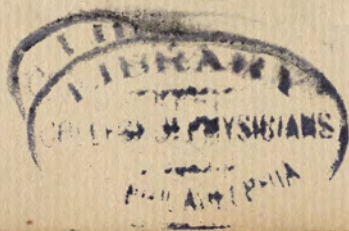


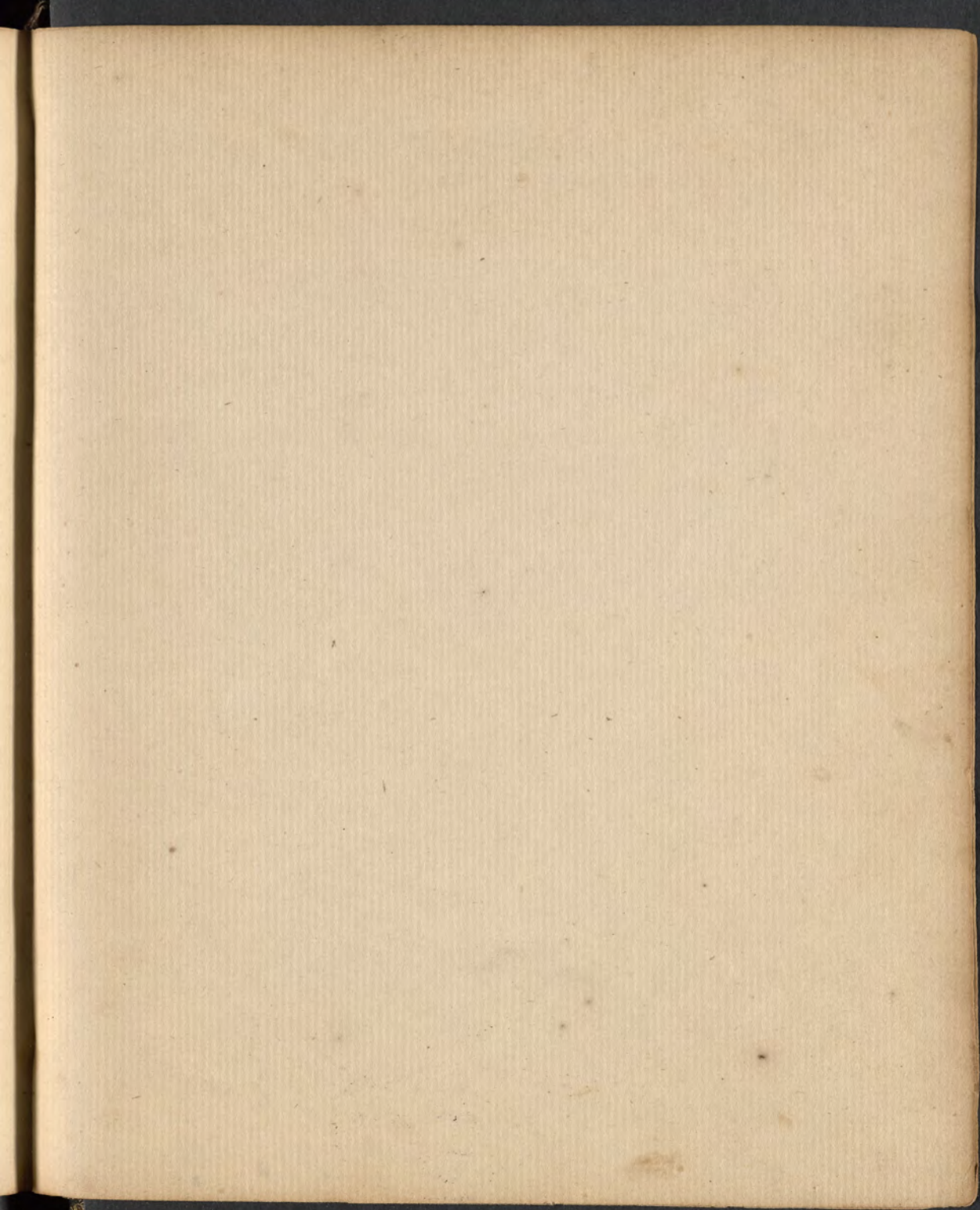
medicines act alike in the same disease at different times - Thus we see that Opium at one time relieves & at another increases it - it is thus with all medicines - In short medicines are only relatively good, that is, they only do good when suited to the different states of the system - When I hear that *Op.* is prescribed in Fever or in *Cynanche Trachealis* without attention to the state of the system, I feel as if I was listening to regular bad quackery. Such Physicians remind me of the Bermudean Sailor who on his passage to the West Indies threw shingles into the sea, in order to find his way more easily back. As well might we expect that the Alphabet when jumbled in a box w<sup>d</sup> fall out in the form of an Epic Poem, as that medicines w<sup>d</sup> cure diseases, when thrown into the system without any regard to the symptoms & stages of the disease, or in short to the state of the system -

Here Gent. we take our leave of Therapeutics, & come next in order to the fourth & last subject - The Practice of Medicine.

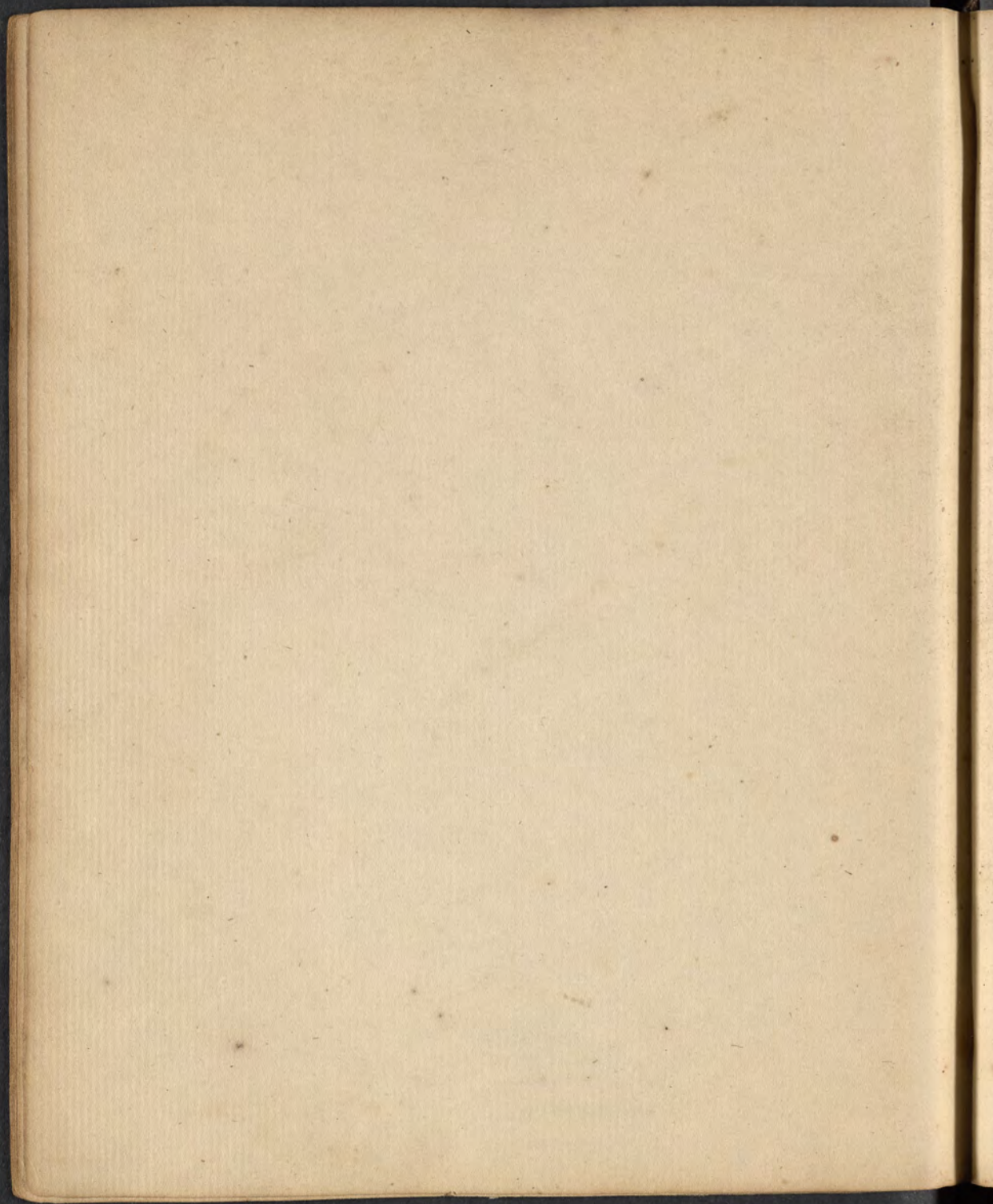


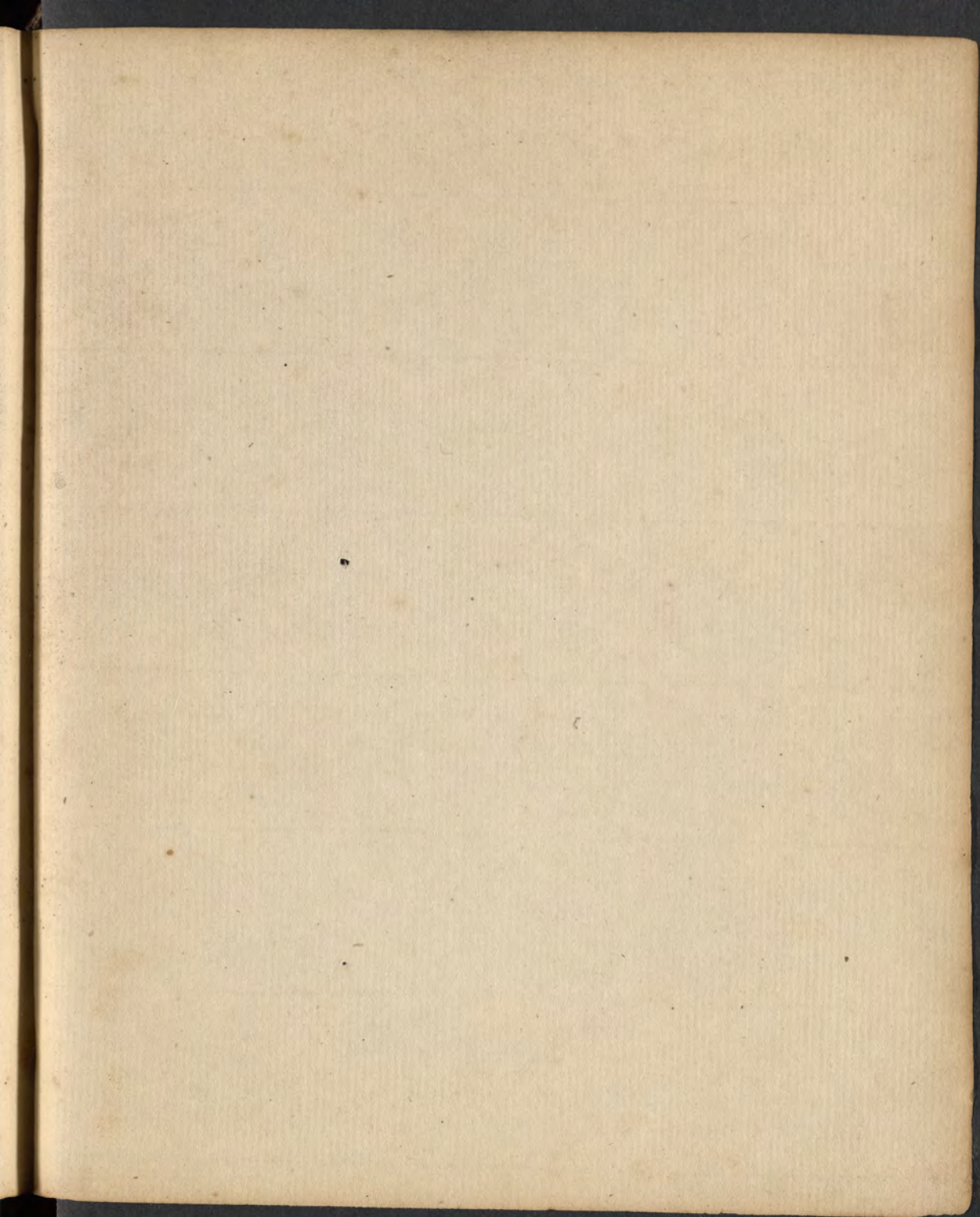




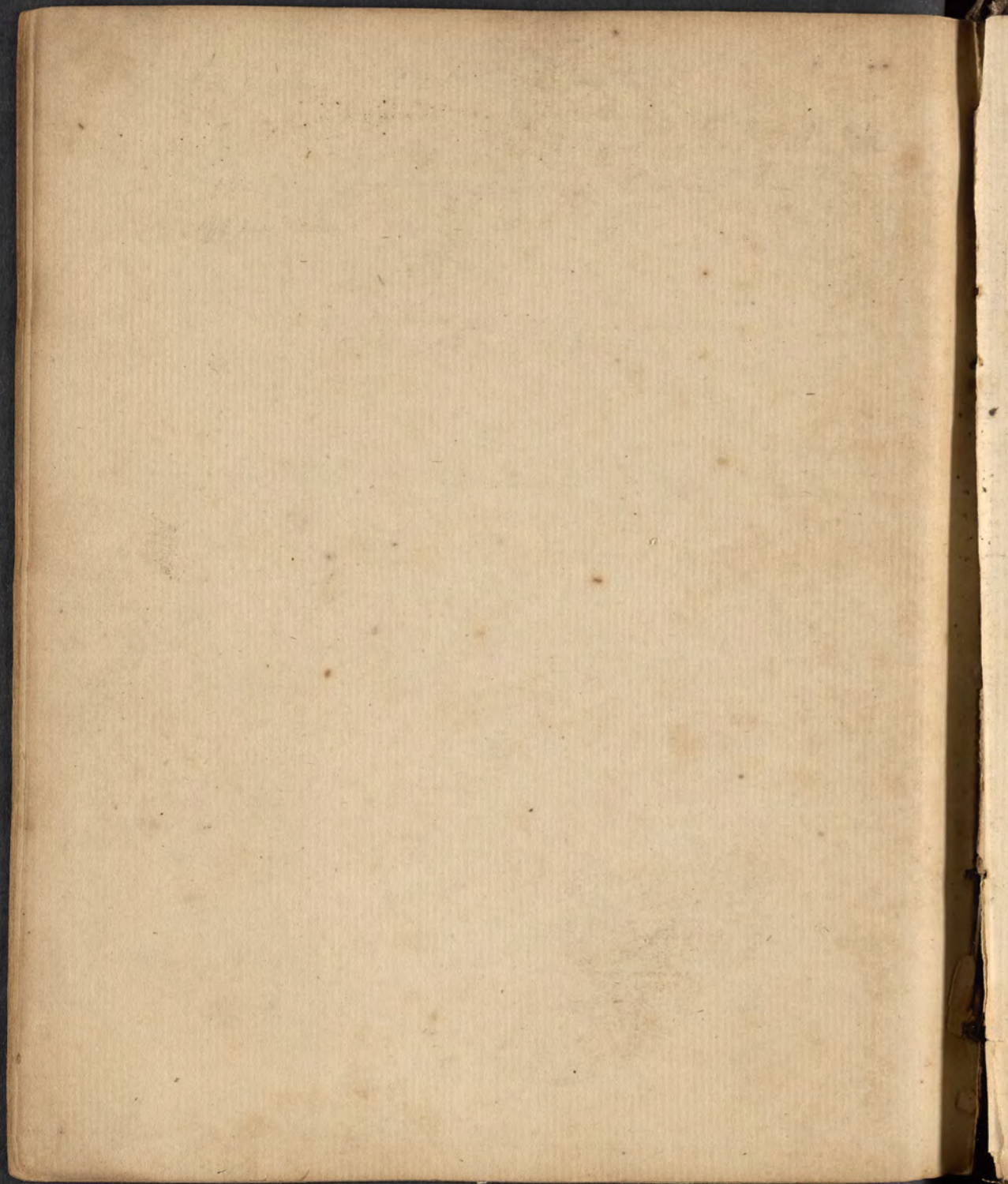












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1. The first part of the paper is devoted to a general  
description of the country and its resources.

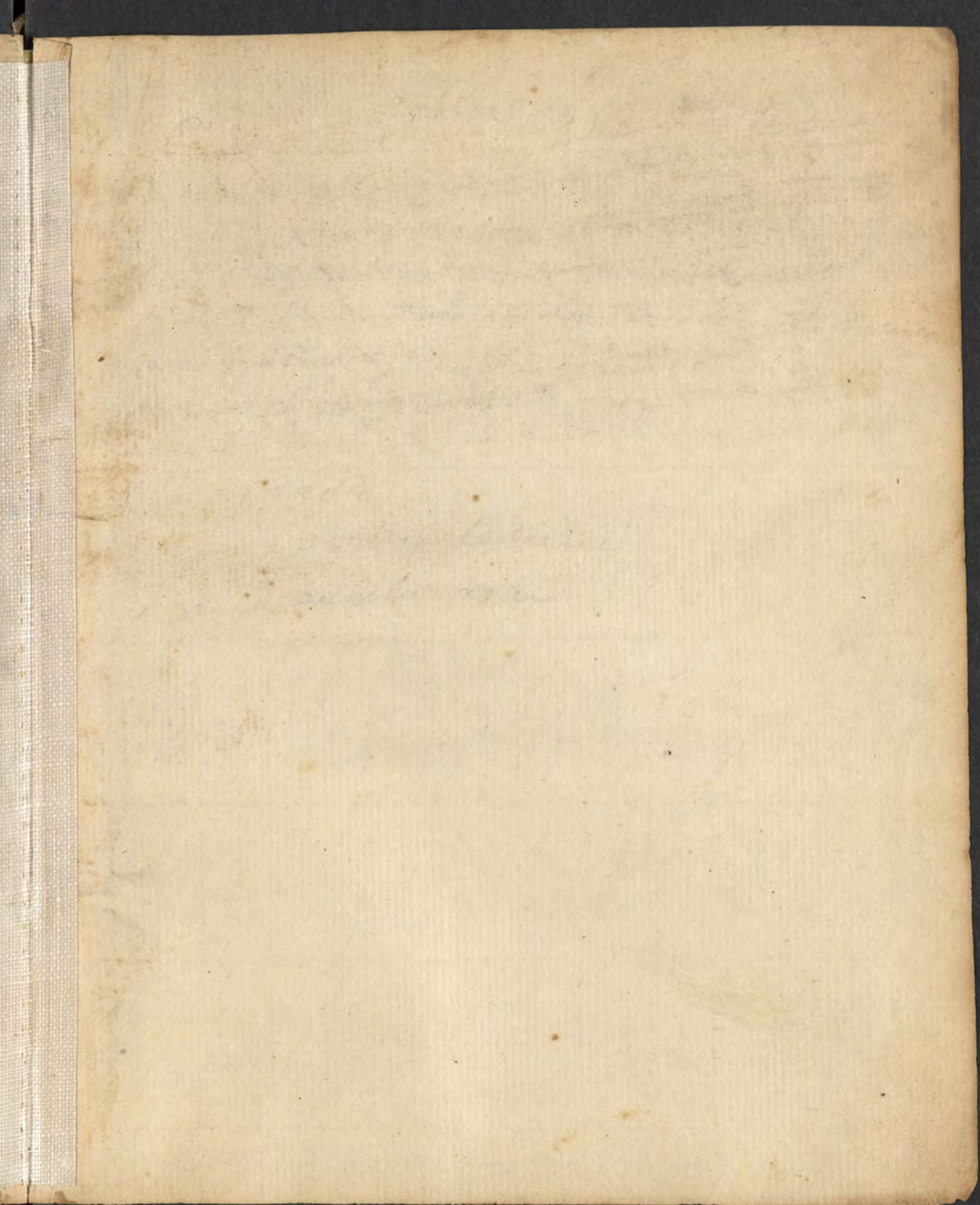
2. The second part of the paper is devoted to a  
description of the principal towns and cities of the  
country and their commerce and industry.

3. The third part of the paper is devoted to a  
description of the principal rivers and lakes of the  
country and their navigation.

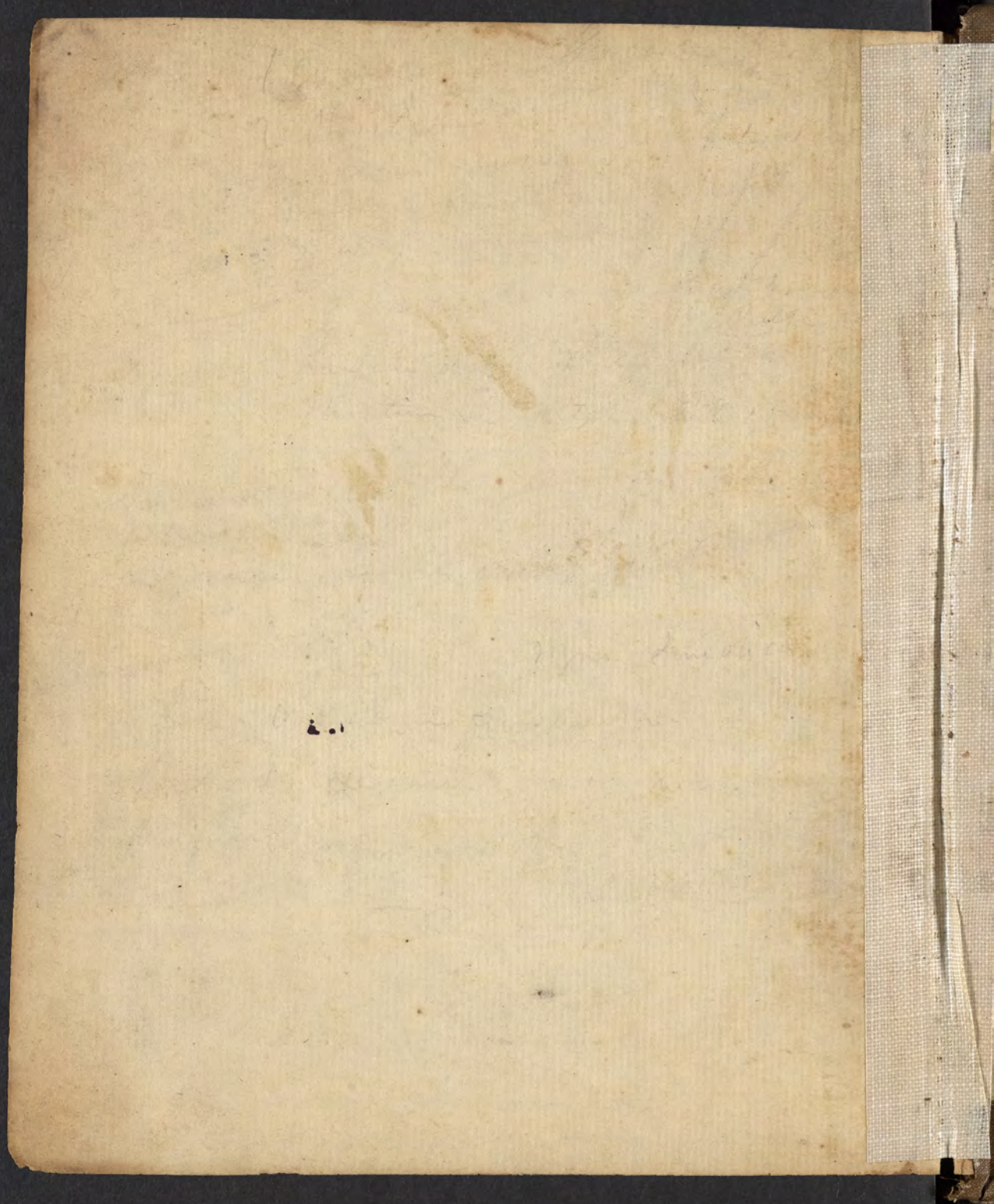
4. The fourth part of the paper is devoted to a  
description of the principal mountains and hills of the  
country and their scenery.



- 1 Occurrence of disease
- 2 Appearance
- 3 The signs & seats of affection & the  
by substitution of medicines.
- 4 Remove acute febrile effect here in hyp-  
and chronic fevers where low diet & rest  
have prevailed for some time.  
Little may say person birth etc. & what  
results attended in chronic fevers.









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